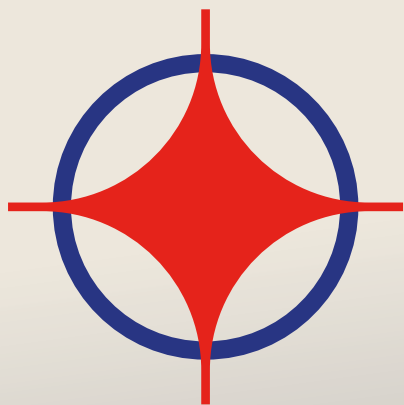
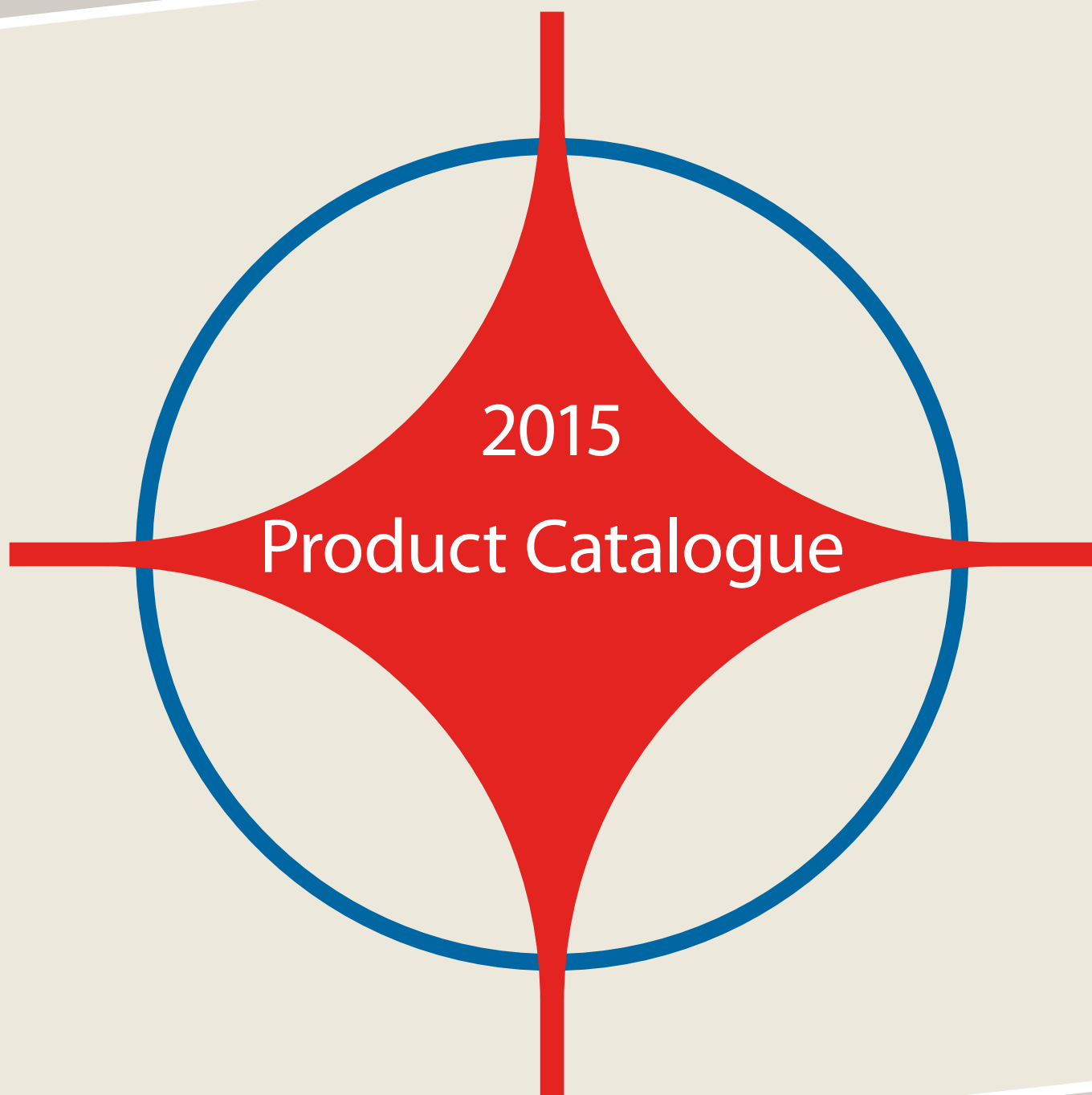




Pixsys
ELECTRONICS





Certificate No.
146728-2013-AQ
ITA-ACCREDIA



A manufacturing company & a registered trademark

Pixsys stands for twenty years of experience in designing and manufacturing of instrumentation for process control and industrial automation. Starting with hardware and software design, up to product assembly, we complete the entire manufacturing cycle at our factory in Italy.

Product concept relies on extremely flexible hardware and software structures allowing reduced order codes, and on user-friendly interfaces and programming tools which simplify start-up and after-sales service.

Browse the web site www.pixsys.net for detailed information.

Sharing and interconnecting, just a few clicks away



DOWNLOAD

Manuals, Software tools and Application Notes available for download within each product page.

VIDEO-MANUALS

Short video-manuals provide descriptions and examples about programming options by keyboard or by Memory Cards, as well as demos of software tools.

FORUM & FAQ

A dedicated area for all your questions related to set-up, configuration and operating modes for Pixsys devices, including FAQ area for round-the-clock answers to the most frequent questions.

TRAINING SESSIONS

Special attention is reserved to technical training about the programmable systems (PLCs, HMIs) and also parametric devices if required. Arranged upon request, they can be focused on a specific project, as an opportunity to combine theory and practice. Contact our Sales dept for details.



EXTENSIVE SALES NETWORK

Become a PIXSYS partner!

Are you a Systems Integrator with a background in PLCs and HMIs programming?

Or a distributor/reseller of industrial electronic devices with a focus on solutions rather than on single components? Contact our Export dept to discuss cooperation and become a partner of our expanding sales network.

NEWSLETTER

Sign-up on our website to receive regular updates about products, special promotions, events and tradeshows.

BLOG

An interactive space to communicate and to share case-histories, ideas, hints and suggestions about Pixsys devices and upcoming projects. Open to your contribution.

Controllers



ATR121 / ATR141



ATR142



ATR236



ATR227



ATR243



ATR171

DIMENSIONS (mm)

32 x 74 x 53

32 x 74 x 53

48 x 48 x 107

48 x 48 x 90 /
DIN 43880

48 x 48 x 125

72 x 72 x 99

p. 13

p. 14

p. 16

p. 17

p. 18

p. 15

Process Controllers / Programmers



ATR 421



ATR 621



ATR 902



ATR 313



PL300

48 x 96 x 123

72 x 72 x 99

120 x 65 x 65

251 x 146 x 66

160 x 90 x 58

p. 24

p. 25

p. 28

p. 26

p. 27

Adapters



Panel / DIN adapters

p. 37

DIN sockets



SSR / Relays socket

p. 37



ATR401

48 x 96 x 123

p. 19



DDR227

DIN 43880 (EN50022)

p. 20



DDR245

DIN 43880 (EN50022)

p. 21



DDR450

(EN50022)

p. 22



ATR131

32 x 74 x 53

p. 29



DDR132

DIN 43880 (EN50022)

p. 30

Indicators



STR550

96 x 48 x 48

p. 31



STR560 / 561

96 x 48 x 48

p. 32



STR571

96 x 48 x 48

p. 33

Timers / Counters



TCT101

32 x 74 x 53

p. 35



TCT201

48 x 48 x 107

p. 36

Signal converters / Current transformers



2000.35.010 / 015

45 x 23

p. 38



2000.35.016 / 017

DIN 43880

p. 38



2000.35.021

46,1 x 63 x 26,4

p. 39



2000.35.013

46,1 x 63 x 26,4

p. 39



2000.35.014

46,1 x 63 x 26,4

p. 39

PLCs - I/O Modules



EPL101 - PLC

151 x 80 x max 33

p. 44



PL110 - PLC

108 x 890 x 64

p. 45



PL250 - PLC

160 x 90 x 58

p. 46



PL260 - PLC

160 x 90 x 58

p. 47



MCM260 - I/O MOD.

90 x 71 x 58

p. 48

HMI - Operator panels



TD240

3.5" TFT

p. 51



TD320

5.7" TFT

p. 52



TD430

4.3" TFT 480 x 272

p. 53



TD700

7" TFT 800 x 480

p. 54



TD750

7" TFT 800 x 600

p. 55

Sensors and complementary fittings

TEMPERATURE SENSORS - EASY-UP password for quick set-up



PT100 EASY-UP

Class B, 3 wires
GSC / TTS cable

p. 61



PT100 EASY-UP

Air probes, Class B
3 wires

p. 61



PT1000 EASY-UP

GSC / TTS cable, PVC
Thermoplastic sealing IP65 /
IP67

p. 62



PT100 EASY-UP (optional
transmitter 4..20mA)

Class B, DIN-B head

p. 62



TCJ EASY-UP

GSC / TTS cable

p. 63

INFRARED SENSORS - Non-contact temperature measurement



PC21-151-301

Fixed emissivity
-20 to 500°C

p. 66



EXTEMP

Atex IR sensor

p. 66



PB151

Modbus IR sensor

p. 67



PYROMINI

Miniature sensing head
optional Touch-screen /
Datalogging

p. 67



PL470 / 471

DIN43880
108 x 90 x 64

p. 49



EPL470

DIN43880
90 x 71 x 58 (H)

p. 50



TD850

10.4" TFT 800 x 600

p. 56



TD900

15" TFT 1024 x 768

p. 57



TCJ EASY-UP

Washer, GSC / TTS cable

p. 63



TCK EASY-UP

GSC / TTS cable

p. 64



TC-K ALUMINA

DIN-B head, Alumina sheath up
1280°C

p. 64



PTC1K / EASY-UP

KTY82-121, GSC / PVC cable

p. 65



NTC10K EASY-UP

β3435, Thermoplastic sealing
IP65 / IP67

p. 65

DST SENSORS



DST100

RTD Temperature

p. 68



DST200

IR Temperature

p. 68



DST400

Pressure

p. 68



DST800

Level

p. 68



DST-HART

USB Programmer

p. 68

PRESSURE TRANSMITTERS



ECT



ECT / NAT



FL-ME



ECL

Low range up to 600mBar

Range -1..1000Bar

Flush membrane transmitter

Submersible pressure transmitter

p. 69

p. 69

p. 70

p. 70

HUMIDITY TRANSMITTERS



RH96



EE060



EE210 / EE160



EE23



EE354

Hum. / Temp. transmitters
OEM applications

Compact transmitters OEM
applications

High precision Hum. /
Temp. HVAC

Hum. / Temp. Industrial
applications

Dew point Temp.
transmitters
OEM applications

p. 73

p. 73

p. 74

p. 74

p. 75

SERIAL CONVERTERS



NET200



NET250

Serial converter RS232 /
RS485 / USB

Wireless modem -
transmitter + receiver

p. 78

p. 78

POWER SUPPLIES



MDR



DR

1ph
Out 24 V DC

1ph / 3ph
Out 24V DC

p. 79

p. 79

LOAD CELLS



LOAD CELLS

Static

p. 71



LOAD CELLS

Dynamic

p. 71

DYNISCO MELT



PTX | MDX | SPX

Pressure transmitters for plastic materials Echo

p. 72



VERTEX

p. 72

SSR - SOLID STATE RELAYS



OKPAC

Zero-crossing
Resistive loads
25A..125A / 1ph

p. 75



SAL / SU / SUL

Zero-crossing
Resistive loads
30..75A / 1ph

p. 76



SWTA

Phase-angle
Resistive / inductive
Ctrl 4..20mA, 32A / 3ph

p. 76



SIT

Zero-crossing
Ctrl 90-240 V AC
50A / 3ph

p. 77



SGT

Zero-crossing
Ctrl 8-32 V DC
50A / 3ph

p. 77

MOTION



MOTORS

p. 80



ENCODERS

p. 80



PARAMETRIC DEVICES

MEMORY CARDS



Memory cards with / without battery

Memory Cards are conceived to support the installer/operator, allowing simplified and time-saving setting of parameters on Pixsys controllers/programmers/timers, particularly if involving serial production or repetitive applications.

The version with internal battery (1000 programmings, replaceable) allows quick and error-saving duplication of parameters, not requiring connection to power supply for the controller. USB port ensures connection to PC and software tool Pixsys LABSOFTVIEW.

Ordering codes

2100.30.002	M.c.Par Series ATR171 -ATR236-ATR243-ATR401-DRR245
2100.30.003	M.c.Par/Upgrade-Batt. Series ATR121 - ATR141 - ATR142 - ATR171 - ATR236 - ATR243 ATR401 - DRR132 - DRR245
2100.30.005	M.c.Par Series ATR121-ATR141-ATR142-TCT101
2100.30.006	M.c.Par Series ATR421-ATR621
2100.30.007	M.c.Par/Upgrade-Batt. Series ATR421-ATR621
2100.30.008	M.c.Par Series ATR620
2100.30.009	M.c.Upgrade Series ATR500-ATR620
2100.30.013	M.c.Upgrade with Micro-USB Series ATR227-DRR227-STR560-STR561-STR571

LABSOFTVIEW



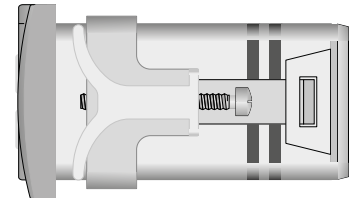
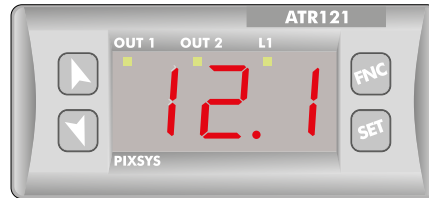
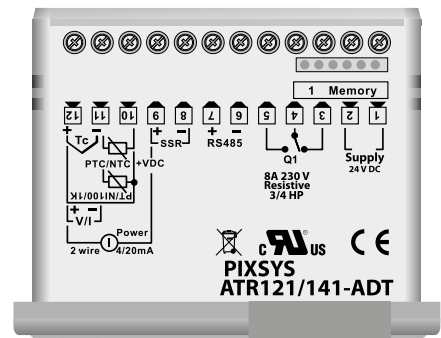
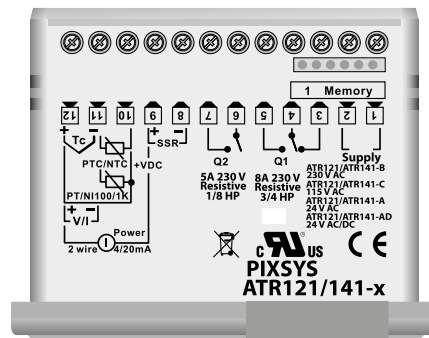
SW- HW Kit for configuration / setting of Pixsys ATR/DRR/TCT devices

Conceived for the configuration and monitoring of Pixsys devices ATR/DRR/TCT, the software LabSoftView for Windows is easy to install and to operate. Labsoftview allows to set the parameters and setpoint values. Settings can be saved on file and recalled for further use. Process and setpoint trends can be monitored and graphically visualized to support eventual adjustments of control algorithm and PID settings. The kit includes software on CD, Memory Card with battery and USB cable.

Ordering codes

2100.10.020	KIT Labsoftview software + hardware (memory card + USB cable)
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ATR121 / ATR141

Controller double setpoint



Main features

Box	32x74 (front panel) x 53 mm
Power supply	12..24 V AC/DC or 24 V AC / 115 V AC/230 V AC $\pm 15\%$ 50/60 Hz - galvanical isolation 2500V (not for AD-ADT)
Power consumption	2 W
Display	3 digits, 0,56" red + 3 signaling leds
Operating conditions	Temperature 0-45 °C, humidity 35..95 RH%
Material	Box: Noryl UL94V1 self-extinguishing; front panel: ABS UL94V0 self-extinguishing
Weight	Approx. 100 g
Sealing	Front panel IP65 (with gasket) , Box IP30, Terminal blocks IP20
Quick set-up options	Memory Card with/without battery, software LABSOFTVIEW

Inputs

1 configurable	Res. 16 bit, selectable for TC type K, S, R, J (automatic compensation of the cold junction 0..50 °C, $\pm 0,2\%$ F.S. ± 1 Digit F.S.), thermoresistances PT100, PT500, PT1000, Ni100, PTC1K, NTC10K (β 3435K), process signals 0..10 V (40000 points), 0/4..20mA (30000 points), 0..40 mV (16000 points), potentiometer 6 K Ω , 150 K Ω (40000 points)
Sampling frequency	66ms (frequency 15 Hz)

Outputs

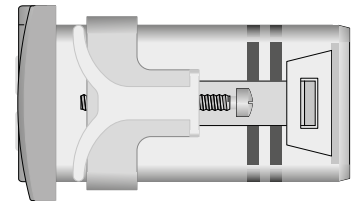
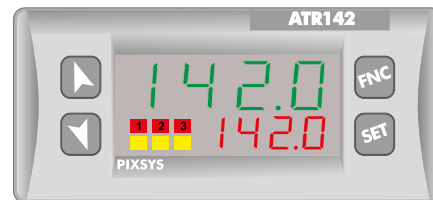
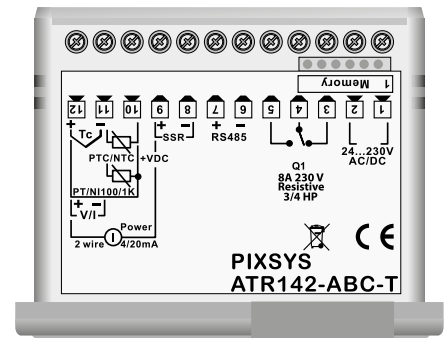
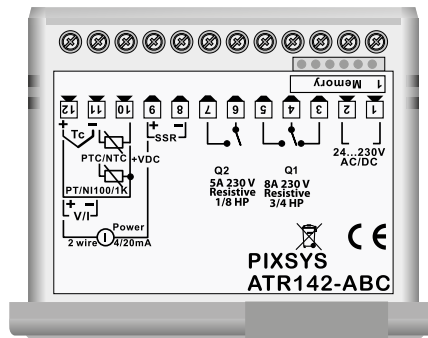
2 relays	1 relay 8A - 250 V AC resistive charge + 1 relay 5A - 250 V AC resistive charge
1 SSR	8 V DC - 20 mA (codes A/B/C) - 15 V DC - 30 mA (code AD)
Serial communication	RS485 Modbus RTU - Slave (300..38400 baud)

Software features

Control algorithms	ON - OFF with hysteresis, P, P.I., P.I.D., P.D. time proportioned, Dead band
Tuning	Manual or automatic
Operating modes	Visualizer, Single setpoint, Double setpoint (selection by parameter)
Data protection	Lock of control / alarm setpoint - Access to parameters by password
Alarm modes	Absolute / Threshold, band, High / Low deviation. Alarm with optional manual reset
Double P.I.D.	Heating / Cooling P.I.D.
Open / Close logic	Open / Close logic for motorized valves

Ordering codes

ATR121-AD	1 analogue input + 2 relays 8 A + 1 SSR 12 V DC / Supp. 12..24 V AC/DC
ATR121-A	1 analogue input + 2 relays 8 A + 1 SSR 12 V DC / Supp. 24 V AC
ATR121-B	1 analogue input + 2 relays 8 A + 1 SSR 12 V DC / Supp. 230 V AC
ATR121-C	1 analogue input + 2 relays 8 A + 1 SSR 12 V DC / Supp. 115 V AC
ATR121-ADT	1 analogue input + 1 relay 8 A + 1 SSR 12 V DC + RS485 Modbus RTU Slave / Supp. 12..24 V AC/DC
ATR141-AD	1 analogue input + 2 relays 8 A + 1 SSR 12 V DC / Supp. 12..24 V AC/DC
ATR141-A	1 analogue input + 2 relays 8 A + 1 SSR 12 V DC / Supp. 24 V AC
ATR141-B	1 analogue input + 2 relays 8 A + 1 SSR 12 V DC / Supp. 230 V AC
ATR141-C	1 analogue input + 2 relays 8 A + 1 SSR 12 V DC / Supp. 115 V AC
ATR141-ADT	1 analogue input + 1 relay 8 A + 1 SSR 12 V DC + RS485 Modbus RTU Slave / Supp. 12..24 V AC/DC



ATR142

Controller multiple setpoint



Main features

Box	32 x 74 (front panel) x 53 mm
Power supply	24..230V AC/DC $\pm 15\%$ 50/60 Hz - galvanical isolation 2500V
Power consumption	2 W
Display	4 digits 0,4" green + 4 digits 0,3" red + 6 signaling leds
Operating conditions	Temperature 0-45 °C, humidity 35..95 RH%
Material	Box: Noryl UL94V1 self-extinguishing; front panel: PC ABS UL94V0 self-extinguishing
Weight	Approx. 112 g
Sealing	Front panel IP65 (with gasket) , Box IP30, Terminal blocks IP20
Quick set-up options	Memory Card with / without battery, software LABSOFTVIEW, EASY-UP codes

Inputs

1 configurable	Res. 16 bit, selectable for TC type K, S, R, J (automatic compensation of the cold junction 0..50 °C, $\pm 0,2\%$ F.S. ± 1 Digit F.S.), thermoresistances PT100, PT500, PT1000, Ni100, PTC1K, NTC10K (β 3435K), process signals 0..10 V (54000 points), 0/4..20mA (40000 points), 0..40 mV (16000 points), potentiometer 6 K Ω , 150 K Ω (50000 points)
Sampling time	Up to 4,1 ms (Frequency 242 Hz)
1 digital input	1/2 setpoint selection, Hold, Run (only if TC, 0..10V, 0/4..20mA, 0..40mV)

Outputs

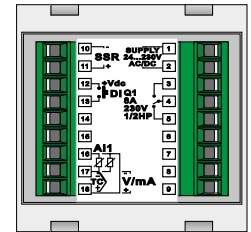
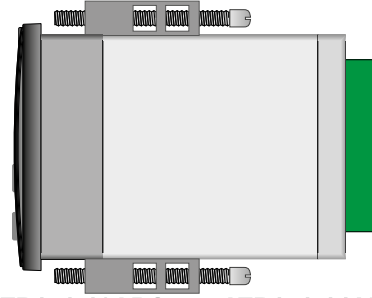
2 relays	1 relay 8A - 250 V AC resistive charge + 1 relay 5A - 250 V AC resistive charge
1 SSR	12 V DC - 30 mA
Serial communication	RS485 Modbus RTU - Master/Slave (4800..57600 baud)

Software features

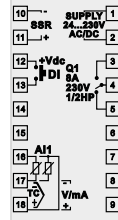
Control algorithms	ON - OFF with hysteresis, P., P.I., P.I.D., P.D. time proportioned, dead band
Tuning	Manual or automatic
Data protection	Lock of command / alarm setpoint - Access to parameters by password
Alarm modes	Absolute / Threshold, band, High / Low deviation. Alarm with optional manual reset
Soft-Start	Rising gradient expressed as Degrees / Hour
Double P.I.D.	Heating / Cooling P.I.D.
Programmer function	Start / Stop, 3 steps pre-programmed cycle
Timer function	Controller function + single / double Timer
Open / Close logic	Open / Close logic for motorized valves

Ordering codes

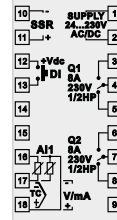
ATR142-ABC	1 analogue input + 2 relays 8/5 A + 1 SSR 12 V DC / Supp. 24..230 V AC/DC
ATR142-ABC-T	1 analogue input + 1 relay 8 A + 1 SSR 12 V DC + RS485 / Supp. 24..230 V AC/DC



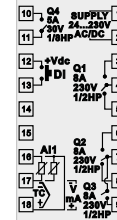
ATR171-11ABC



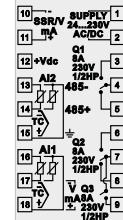
ATR171-12ABC



ATR171-14ABC



ATR171-23ABC-T



ATR171

Controller multiple setpoint, dual analogue input

Main features

Box	72 x 72 (front panel) x 99 mm
Power supply	24..230V AC/DC $\pm 15\%$ 50/60 Hz - galvanical isolation 2500V
Power consumption	5,5 VA
Display	4 digits 0,5" green + 4 digits 0,3" red + 6 signaling leds
Operating conditions	Temperature 0-45 °C, 35..95 RH%
Material	Box: Noryl UL94V1 self-extinguishing; Front panel: Silicon rubber V0
Weight	Approx. 250 g
Sealing	Front panel IP54 (with gasket), Box IP30, Terminal blocks IP20
Quick set-up options	Memory Card with / without battery, software LABSOFTVIEW, EASY-UP codes

Inputs

Analogue configurable	Res. 16 bit, selectable for TC type K, S, R, J (automatic compensation of the cold junction 0..50 °C, $\pm 0,2\%$ F.S. ± 1 Digit F.S.), thermoresistances PT100, PT500, PT1000, Ni100, PTC1K, NTC10K (β 3435K), process signals 0..10 V (54000 points), 0/4..20mA (40000 points), 0..40 mV (16000 points), potentiometer 6 K Ω , 150 K Ω (50000 points)
Sampling time	Programmable up to 4,1 ms (Frequency up to 242 Hz)
1 Digital input	1..4 setpoints selection, Hold, Run (codes -11/12/14ABC)

Outputs

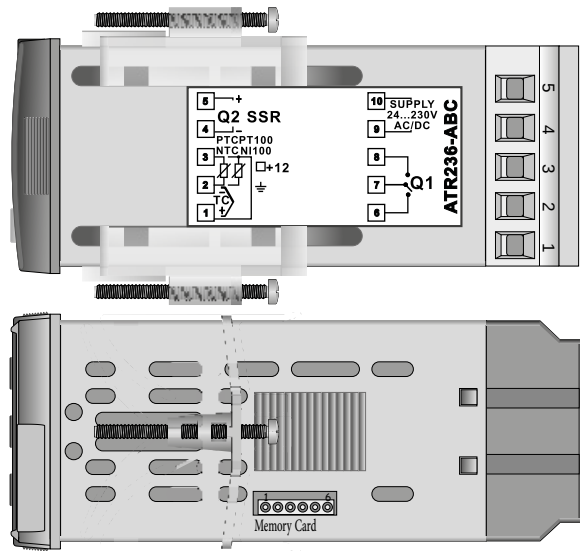
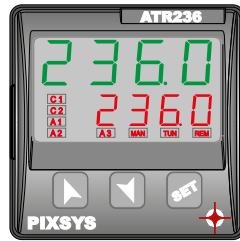
1..3 Relays	1..3 Relays 8A - 250 V AC resistive charge + 1 Relay 5A - 30 V resistive charge (code 14ABC)
1 Analogue	Selection SSR 12 V DC - 30 mA / 0..10V / 4..20mA as command or retransmission setpoint-process (code -23ABC-T)
Serial communication	RS485 Modbus RTU - Slave (4800..57600 baud code 23ABC-T)

Software features

Control algorithms	ON - OFF with hysteresis, P, P.I., P.I.D., P.D. time proportioned. Automatic / Manual regulation
Tuning	Manual / Automatic
Data protection	Lock of command / alarm setpoint - Access to parameters by password
Alarm modes	Absolute / Threshold, band, High / Low deviation. Alarm with optional manual reset and activation delay. Dead band function
Soft-Start	Rising gradient expressed as Degrees / Hour
Double P.I.D.	Heating / Cooling P.I.D.
Programmer function	3 steps pre-programmed cycle with Start / Stop
Timer function	Controller function + decremental Timer
Remote setpoint	Command setpoint corresponding to AI1 4..20 mA / 0..10 V (code 23ABC-T)
Double input mode	AI1 and AI2 input correlation as mean, difference or addition of process (only for temperature sensors TC - RTD on code 23ABC-T)

Ordering codes

ATR171-11ABC	1 analogue input + 1 relay 8 A + 1 SSR 12 V DC - Supp. 24..230 V AC/DC
ATR171-12ABC	1 analogue input + 2 relay 8 A + 1 SSR 12 V DC - Supp. 24..230 V AC/DC
ATR171-14ABC	1 analogue input + 3 relay 8 A + 1 relay 5 A(30V) + 1 SSR 12 V DC - Supp. 24..230 V AC/DC
ATR171-23ABC-T	2 analogue inputs + 3 relays 8 A + 1 SSR / 0..10 V / 4..20mA + RS485 - Supp. 24..230 V AC/DC



ATR236

Temperature controller, single setpoint

Main features

Box	48x48 (front panel) x 107 mm
Power supply	24..230 V AC/DC $\pm 15\%$ 50/60 Hz - galvanical isolation 2500V
Power consumption	5,0 VA, 4W
Display	4 digits 0,4" green + 4 digits 0,3" red
Operating conditions	Temperature 0-45 °C, humidity 35..95 RH%
Material	Box: Noryl UL94V1 self-extinguishing, front panel: PC ABS UL94V0 self-extinguishing
Weight	Approx. 165 g
Sealing	IP65 (Front panel), IP20 (Box and terminal bloks)
Quick set-up options	Memory Card with / without battery, software LABSOFTVIEW, EASY-UP codes

Inputs

1 Configurable	Res. 16 bit, selectable for TC type K, S, R, J (automatic compensation of the cold junction 0..50 °C, $\pm 0,2\%$ F.S. ± 1 Digit F.S.), thermoresistances PT100, PT500, PT1000, Ni100, PTC1K, NTC10K (β 3435K), process signals 0..10 V (54000 points), 0/4..20mA (40000 points), 0..40 mV (16000 points), potentiometer 6 K Ω , 150 K Ω (50000 points)
Sampling time	Programmable up to 4,1 ms (frequency up to 242 Hz)

Outputs

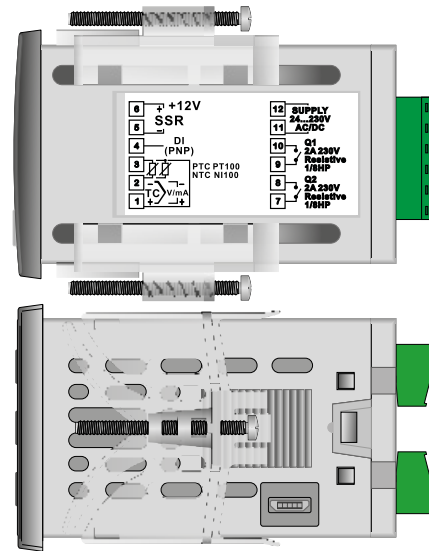
1 relay	Relay 5 A - 250 V AC resistive charge
1 SSR	12 V DC - 30 mA max

Software features

Control algorithms	ON - OFF with hysteresis, P, P.I., P.I.D., P.D. time proportioned
Tuning	Manual or automatic
Data protection	Lock of control / alarm setpoint, Access to parameters by password
Alarm modes	Absolute / Threshold, band, high / low deviation. Alarm with optional manual reset
Auto / Man function	Command output percentage
Soft-Start	Rising gradient expressed as Degrees / Hour

Ordering codes

ATR236-ABC	1 analogue input + 1 relay 5 A + 1 SSR - 12 V
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ATR227

Controller multiple setpoint, phase-angle or burst firing control

Main features

Box	48 x 48 (front panel) x 90 mm
Power supply	24..230 V AC/DC $\pm 15\%$ 50/60 Hz - galvanical isolation 2500V
Power consumption	5,0 VA, 4W
Display	4 digits 0,4" green + 4 digits 0,3" red
Operating conditions	Temperature 0-45 °C, humidity 35..95 RH%
Material	Box: Noryl UL94V1 self-extinguishing
Weight	Approx. 130 g
Sealing	IP65 (Front panel), IP20 (Box and terminal bloks)
Quick set-up options	Memory-card Micro-USB, software LABSOFTVIEW, EASY-UP codes

Inputs

1 Configurable	Res. 15 bit, selection TC, K, J, S, R (automatic compensation of the cold junction 0..50 °C, $\pm 0,3\%$ F.S. ± 1 Digit F.S.), PT100, PT500, PT1000, Ni100, PTC1K, NTC10K (B 3435K), 0/4..20 mA (25000 points), 0..10 V (22000 points), 0..40mV (16000 points), potentiometer 1..6/160 K Ω , T.A (25000 points)
Sampling time / Resolution	100ms (frequency 10 Hz) - 15 bit (20000 points for 0..10V - 20000 points for 4..20mA)
1 digital input	1 PNP

Outputs

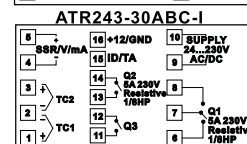
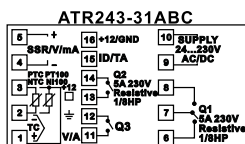
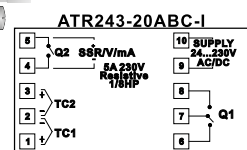
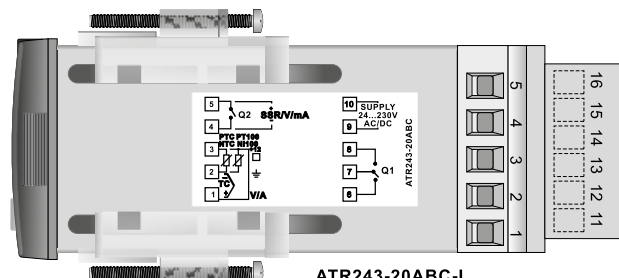
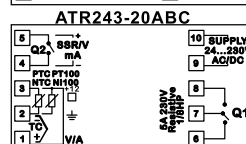
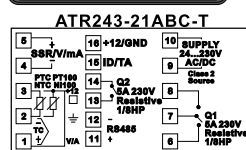
2 relays	Relay 2A - 250 V AC resistive charge
1 SSR	12 V DC - 30 mA max. (code 11ABC)
1 SSR	12 V DC - 30 mA max. synchronized with main power supply (code 12ABC)

Software features

Control algorithms	ON - OFF with hysteresis, P, P.I., P.I.D., P.D. time proportioned
Tuning	Manual or automatic
Output control	Phase angle, burst firing and advanced burst firing control
Data protection	Lock of control / alarm setpoint, access to parameters by password
Alarm modes	Absolute / Threshold, band, high / low deviation. Alarm with optional manual reset
Auto / Man function	Command output percentage
Soft-Start	Rising gradient expressed as Degrees / Hour

Ordering codes

ATR227-11ABC	2 relays (2A) + 1 SSR + D.I.
ATR227-12ABC	2 relays (2A) + 1 SSR synchronized with main power supply + D.I.



ATR243

Controller multiple setpoint



Main features

Box	48 x 48 (front panel) x 125 mm
Power supply	24..230 V AC/DC $\pm 15\%$ 50/60 Hz - galvanical isolation 4000V
Power consumption	5,5 VA, 4W
Display	4 digits 0,4 " green + 4 digits 0,3" red
Operating conditions	Temperature 0-45 °C, humidity 35..95 RH%
Material	Box: Noryl UL94V1 self-extinguishing, front panel: PC ABS UL94V0 self-extinguishing
Weight	Approx. 165 g (code 20ABC) - 185 g (code 21ABC / 31ABC)
Sealing	IP65 (Front panel), IP20 (Box and Terminal bloks)
Quick set-up options	Memory Card with / without battery, software LABSOFTVIEW, or EASY-UP codes

Inputs

1 Configurable	Res. 16 bit, selectable for TC type K, S, R, J (automatic compensation of the cold junction 0..50 °C, $\pm 0,2\%$ F.S. ± 1 Digit F.S.), thermoresistances PT100, PT500, PT1000, Ni100, PTC1K, NTC10K (β 3435K), process signals 0..10 V (54000 points), 0/4..20mA (40000 points), 0..40 mV (16000 points), potentiometer 6 K Ω , 150 K Ω (50000 points), T.A (1024 points)
Sampling time	Programmable up to 4,1 ms (Frequency up to 242 Hz)
1 Digital input	1/2..4 setpoint change , Hold, Run, Tuning launch, Start/stop cycle
1 Current Transformer (T.A.) input	Selection C.T. 50 mA - 100 ms - 1024 points (codes 21 / 31ABC)

Outputs

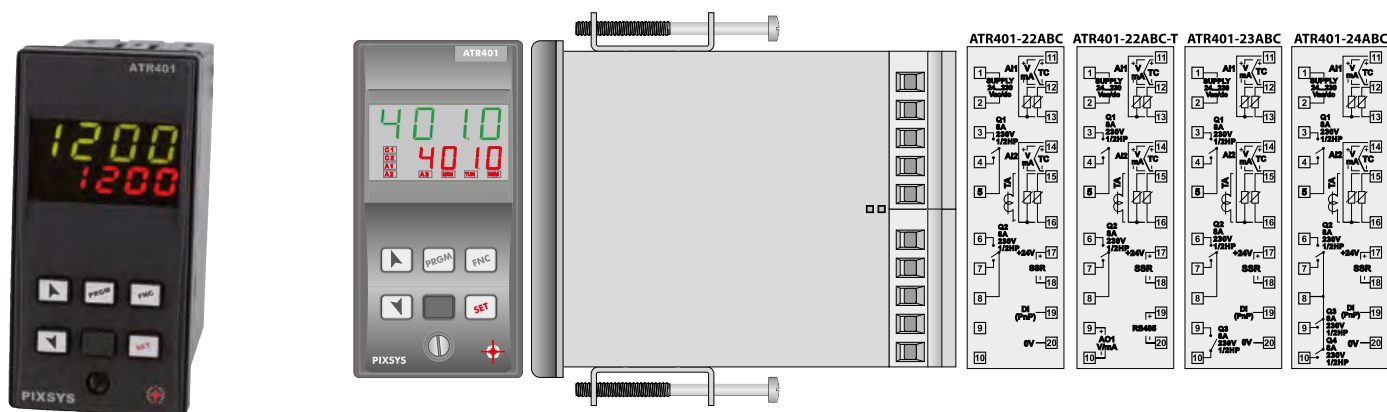
2/3 relays	Relay 5 A - 250 V AC resistive charge
1 SSR	12 V DC - 30 mA max
1 analogue	Selection 0/4..20 mA (6000 points $\pm 0,2\%$ F.S.) or 0..10 V DC (9500 points $\pm 0,2\%$ F.S.) for command or retransmission PV/SPV
Serial communication	RS485 Modbus RTU - Slave (4800..57600 baud code 21ABC-T)

Software features

Control algorithms	ON - OFF with hysteresis, P, P.I., P.I.D., P.D. time proportioned
Tuning	Manual or automatic
Data protection	Lock of control / alarm setpoint, Access to parameters by password
Alarm modes	Absolute / Threshold, Band, High / Low deviation. Alarm with optional manual reset. Loop Break Alarm function
Auto / Man function	Output percentage command also with automatic change in case of sensor failure
Double P.I.D.	Heating / Cooling P.I.D.
Programmer function	Start / Stop pre-programmed cyle with 2/3 steps
Soft-Start	Rising gradient expressed as Degrees / Hour
Open / Close logic	Open / Close logic for motorized valves

Ordering codes

ATR243-20ABC	1 analogue input + 2 relays 5 A or 1 relay 5 A + 1 SSR/V/mA
ATR243-21ABC-T	1 analogue input + 2 relays 5 A + 1 SSR/V/mA + RS485 + C.T.
ATR243-31ABC	1 analogue input + 3 relays 5 A + 1 SSR/V/mA + C.T.
ATR243-20ABC-I	2 analogue inputs (TC) + 2 relays 5A or 1 relay 5A +1 SSR/V/mA
ATR243-31ABC-I	2 analogue inputs (TC) + 3 relays 5A +1 SSR/V/mA+C.T.



ATR401

Controller multiple setpoint, dual analogue input



Main features

Box	48 x 96 (front panel) x 123 mm
Power supply	24..230 V AC/DC $\pm 15\%$ 50/60 Hz (with Jumper 24 - 110..230 V AC) - galvanical isolation 2500V
Power consumption	5,5 VA, 4W
Display	4 digits 0,4 " green + 4 digits 0,3 " red
Operating conditions	Temperature 0-45 °C, humidity 35..95 RH%
Material	Box: Noryl UL94V1 self-extinguishing, front panel: Silicon rubber V0
Weight	Approx. 350 g
Sealing	IP65 (Front panel), IP20 (Box and Terminal bloks)
Quick set-up options	Memory Card with /without battery, software LABSOFTVIEW, EASY-UP codes

Inputs

2 Configurables	Res. 16 bit, selectable for TC type K, S, R, J (automatic compensation of the cold junction 0..50 °C, $\pm 0,2\%$ F.S. ± 1 Digit F.S.), thermoresistances PT100, PT500, PT1000, Ni100, PTC1K, NTC10K (β 3435K), process signals 0..10 V (54000 points), 0/4..20mA (40000 points), 0..40 mV (16000 points), potentiometer 6 K Ω , 150 K Ω (50000 points), C.T. (1024 points)
Sampling time	Programmable up to 4,1 ms (Frequency up to 242 Hz)
1 Digital input	2..4 setpoints selection, Hold, Run, Tuning launch, automatic / manual selection
1 Current Transformer (T.A.) input	Selection C.T. 50 mA - 100 ms overlapped to AI2

Outputs

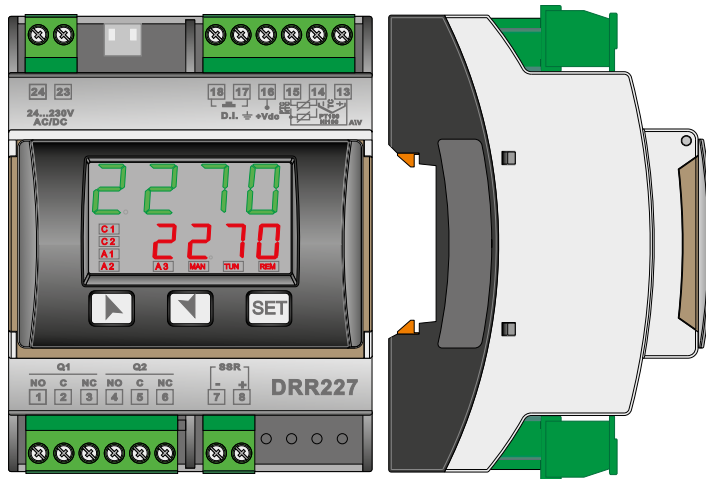
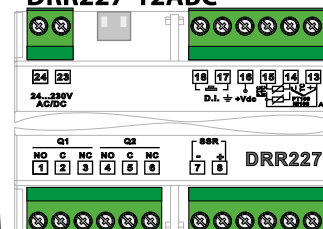
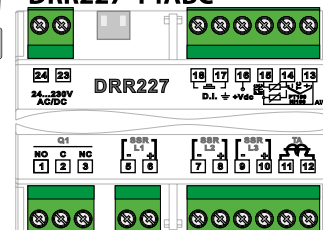
2..4 relays	Relay 8 A - 250 V AC resistive charge
1 SSR	24 V DC - 25 mA max
1 analogue	Selection SSR 12 V DC - 0/4..20 mA (6000 points $\pm 0,2\%$ F.S.) or 0..10 V DC (9500 points $\pm 0,2\%$ F.S.) for command or retransmission PV/SPV
Serial communication	RS485 Modbus RTU - Slave (4800..57600 baud) galvanically isolated from power supply - inputs - outputs

Software features

Control algorithms	ON - OFF with hysteresis, P, P.I., P.I.D., P.D. time proportioned
Tuning	Manual or automatic
Data protection	Lock of control / alarm setpoint, Access to parameters by password
Alarm modes	Absolute / Threshold, band, High / Low deviation. Alarm with optional manual reset. Loop Break Alarm function
Remote setpoint	Command setpoint corresponding to AI2 (4..20 mA / 0..10 V)
Double P.I.D.	Heating / Cooling P.I.D.
Double input mode	AI1 and AI2 inputs correlation as mean, difference or addition of process values
Soft-Start	Rising gradient expressed as Degrees / Hour
Open / Close logic	Open / Close logic for motorized valves

Ordering codes

ATR401-22ABC	2 analogue inputs + 2 relays 8 A + 1 SSR 12 V DC
ATR401-23ABC	2 analogue inputs + 3 relays 8 A + 1 SSR 12 V DC
ATR401-24ABC	2 analogue inputs + 4 relays 8 A + 1 SSR 12 V DC
ATR401-22ABC-T	2 analogue inputs + 2 relays 8 A + 1 SSR 12 V DC, 1 Output V/mA + RS485
ATR401-22ABC-D	2 analogue inputs + 2 relays 8 A + 1 SSR 12 V DC, 1 Output V/mA + Digital input


DRR227-12ABC

DRR227-14ABC


DRR227

Controller multiple setpoint, phase-angle or burst firing function

Main features

Box	DIN43880, DIN EN50022 rail mounted
Power supply	24..230 V AC/DC $\pm 15\%$ 50/60 Hz - galvanical isolation 2500V
Power consumption	5 W
Display	4 digits 0,4" green + 4 digits 0,3" red
Operating conditions	Temperature 0-45 °C, humidity 35..95 RH%
Material	Box: polycarbonate V2; front panel: silicon V0
Weight	Approx. 195 g
Sealing	IP65 (Front panel), IP20 (Box and Terminal blocks)
Quick set-up options	Memory-card Micro-USB, software LABSOFTVIEW, EASY-UP codes
Wiring	With terminal extension

Inputs

1 configurable	Res. 15 bit, selection TC, K, J, S, R (automatic compensation of the cold junction 0..50 °C, $\pm 0,3\%$ F.S. ± 1 Digit F.S.), PT100, PT500, PT1000, Ni100, PTC1K, NTC10K (B 3435K), 0/4..20 mA (25000 points), 0..10 V (22000 points), 0..40mV (16000 points), potentiometer 1..6/160 K Ω , T.A (25000 points)
Sampling time / Resolution	100ms (frequency 10 Hz) - 15 bit (20000 points for 0..10V - 20000 points for 4..20mA)
1 Current Transformer (T.A.) input	Selection C.T. 50 mA - 80 μ s - 1024 points (code 14ABC)
1 Digital input	PNP

Outputs

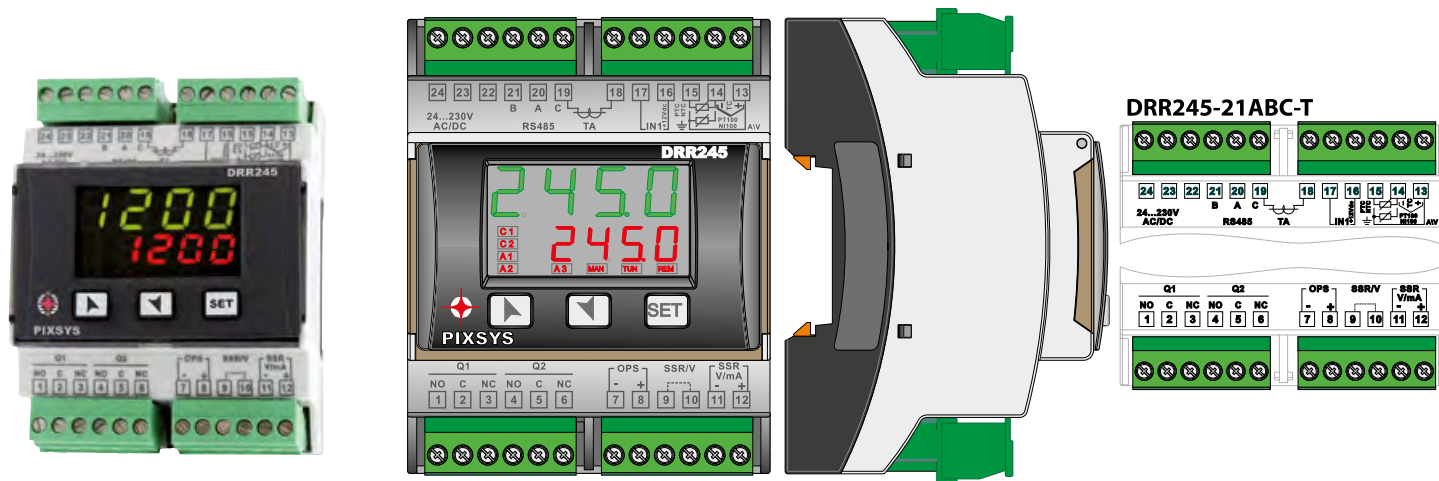
Relay	Relays 2 A - 250 V AC resistive charge
SSR	12 V DC - 30 mA max. synchronized with main power supply

Software features

Control algorithms	ON - OFF with hysteresis, P, P.I., P.I.D., P.D. time proportioned
Tuning	Manual or automatic
Output control	Phase angle, burst firing and advanced burst firing control
Data protection	Lock Command / alarm setpoint
Alarm modes	Absolute / Threshold, band, High / Low deviation. Loop Break Alarm function
Auto/Man function	Output percentage command also with automatic change in case of sensor failure
Double P.I.D.	Heating / Cooling P.I.D.
Soft-Start	Rising gradient expressed as Degrees / Hour
Heater Break	From C.T. input with open loop Alarm / short circuit

Ordering codes

DRR227-12ABC	1 analogue input + 2 relays + 1 Out SSR + D.I.
DRR227-14ABC	1 analogue input + 3 Out SSR + 1 relays + D.I. + C.T.



DRR245

Controller multiple setpoint, signals converter



Main features

Box	DIN43880, DIN EN50022 rail mounted
Power supply	24..230 V AC/DC $\pm 15\%$ 50/60 Hz - galvanical isolation 2500V
Power consumption	3 W
Display	4 digits 0,4" green + 4 digits 0,3" red
Operating conditions	Temperature 0-45 °C, humidity 35..95 RH%
Material	Box: polycarbonate V0; front panel: silicon V0
Weight	Approx. 195 g
Sealing	IP65 (Front panel), IP20 (Box and Terminal blocks)
Quick set-up options	Memory Card with / without battery, software LABSOFTVIEW, EASY-UP codes
Wiring	With terminal extension

Inputs

1 configurable	Res. 16 bit, selectable for TC type K, S, R, J (automatic compensation of the cold junction 0..50 °C, $\pm 0,2\%$ F.S. ± 1 Digit F.S.), thermoresistances PT100, PT500, PT1000, Ni100, PTC1K, NTC10K (β 3435K), process signals 0..10 V (54000 points), 0/4..20mA (40000 points), 0..40 mV (16000 points), potentiometer 6 K Ω , 150 K Ω (50000 points), C.T. (1024 points)
Sampling time	Programmable up to 4,1 ms (Frequency up to 242 Hz)
1 Current Transformer (T.A.) input	Selection C.T. 50 mA - 100 ms - 1024 points
1 Digital input	1/2..4 setpoints selection, Hold, Run, Tuning launch, Start/stop cycle

Outputs

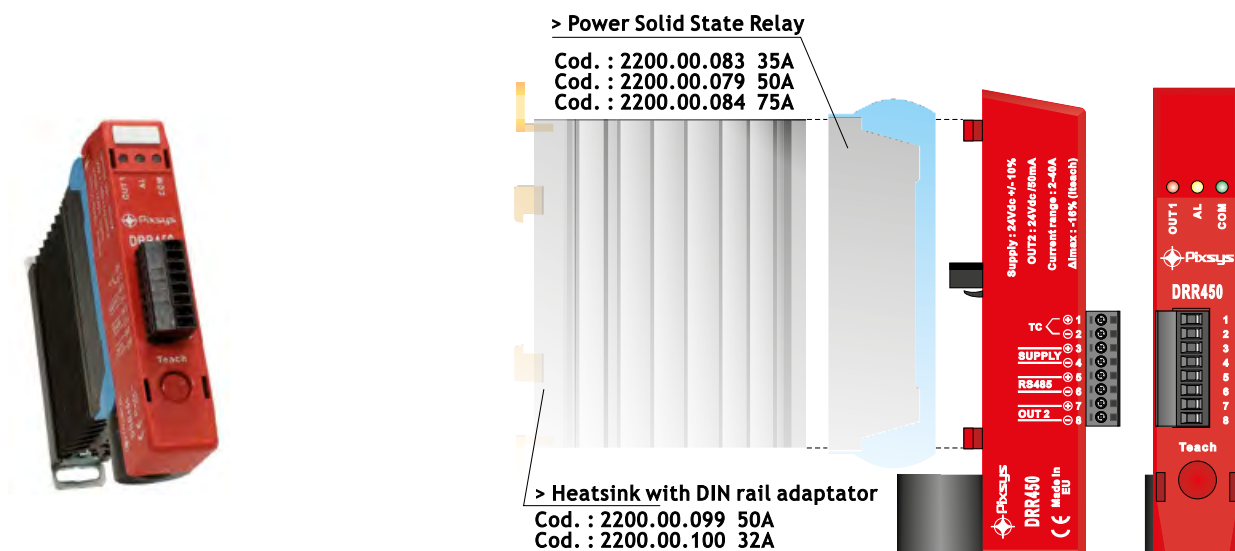
2 relays	Relays 5 A - 250 V AC resistive charge
1 SSR	12 V DC - 30 mA max
1 analogue	Selection 0/4..20 mA (6000 points $\pm 0,2\%$ F.S.) or 0..10 V DC (9500 points $\pm 0,2\%$ F.S.) for command or retransmission PV/SPV
Serial communication	RS485 Modbus RTU - Slave (4800..57600 baud)

Software features

Control algorithms	ON - OFF with hysteresis, P., P.I., P.I.D., P.D. time proportioned
Tuning	Manual or automatic
Data protection	Lock Command / alarm setpoint
Alarm modes	Absolute / Threshold, band, High / Low deviation. Loop Break Alarm function
Auto/Man function	Output percentage command also with automatic change in case of sensor failure
Double P.I.D.	Heating / Cooling P.I.D.
Programmer function	Start/Stop pre-programmed cycle with 2/3 steps
Soft-Start	Rising gradient expressed as Degrees / Hour

Ordering codes

DRR245-21ABC-T	1 analogue input + 2 relays 5 A + 1 SSR/V/mA + RS485 + C.T.
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DRR450

Temperature controller integrated into SSR unit + current transformer

Main features

Box	Module 22,5mm series Celduc ESUC DIN-rail mounting EN50022
Power supply	24 V DC $\pm 10\%$ (galvanically isolated) from RS485 and input (no OUT 2)
Power consumption	1 W
Operating conditions	Temperature 0-45 °C, humidity 35..95 RH%
Material	Box: polycarbonate V0
Weight	Approx. 75 g
Sealing	IP20 (Box and Terminal blocks)
Quick set-up options	Software LABSOFTVIEW
Wiring	Terminal extension on wiring system, Plug-in SSR module

Inputs

1 configurable	Res. 13 bit, selection TC, K, J, T, E (automatic compensation of the cold junction 0..50 °C, $\pm 0,2\%$ F.S.)
1 Current transformer (T.A.)	Integrated Current Transformer with 50A F.S. - resolution 0,1A

Outputs

1 SSR integrated	5 V - 20mA
1 SSR auxiliary	24 V DC - 50 mA max
Serial communication	RS485 Modbus RTU - Slave (1200..115200 baud)

Software features

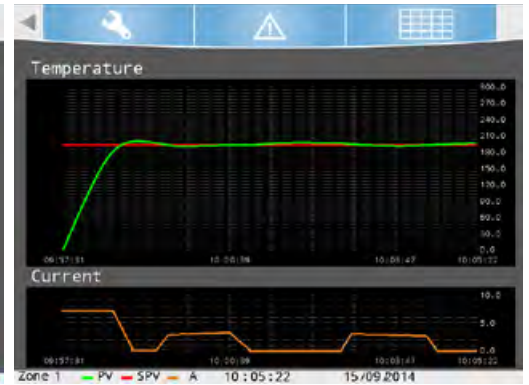
Control algorithms	ON - OFF with hysteresis, P, P.I., P.I.D., P.D. time proportioned
Tuning	Manual or automatic
Alarm mode	Absolute / Threshold, band, High / Low deviation. Loop Break Alarm function
Auto/Man function	Output percentage command also with automatic change in case of sensor failure
Double P.I.D.	Heating / Cooling P.I.D.

Ordering code

DRR450-12A-T128	1 analogue input + 1 SSR Out. integrated + 1 SSR Out auxiliary + RS485 + C.T.
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Ordering codes series SSR series SU / SUL (terminal block for DRR450)

2200.00.085	SSR 30A / 24-400 V AC / Ctrl 3,5-32 V DC led and heatsink
2200.00.083	SSR 35A / 24-600 V AC / Ctrl 3,5-32 V DC
2200.00.100	Heatsink for 32A with DIN adapter
2200.00.079	SSR 50A / 24-600 V AC / Ctrl 3,5-32 V DC
2200.00.099	Heatsink for 50A with DIN adapter
2200.00.084	SSR 75A / 24-600 V AC / Ctrl 3,5-32 V DC



2100.20.012

Monitoring and supervisory software for DRR450

Main features

The most compact solution for control requirements in the most diverse application fields:

- Plastic extrusion
- Textile plants
- Hot-Runner systems
- Firing and drying lines
- Packaging machines
- Multi-zone heat treatment systems

Hardware features and communication protocols

- Serial communication RS485, Modbus RTU, 115000 Baud, Modbus TCP/IP Slave (Process, Setpoint, Current)
- Alarm and/or diagnostic functions available (Loop break alarm/ Heater break alarm) via serial communication and/or auxiliary output.
- Selection AUTOMATIC/MANUAL control of single zones, modification of output %

Software features

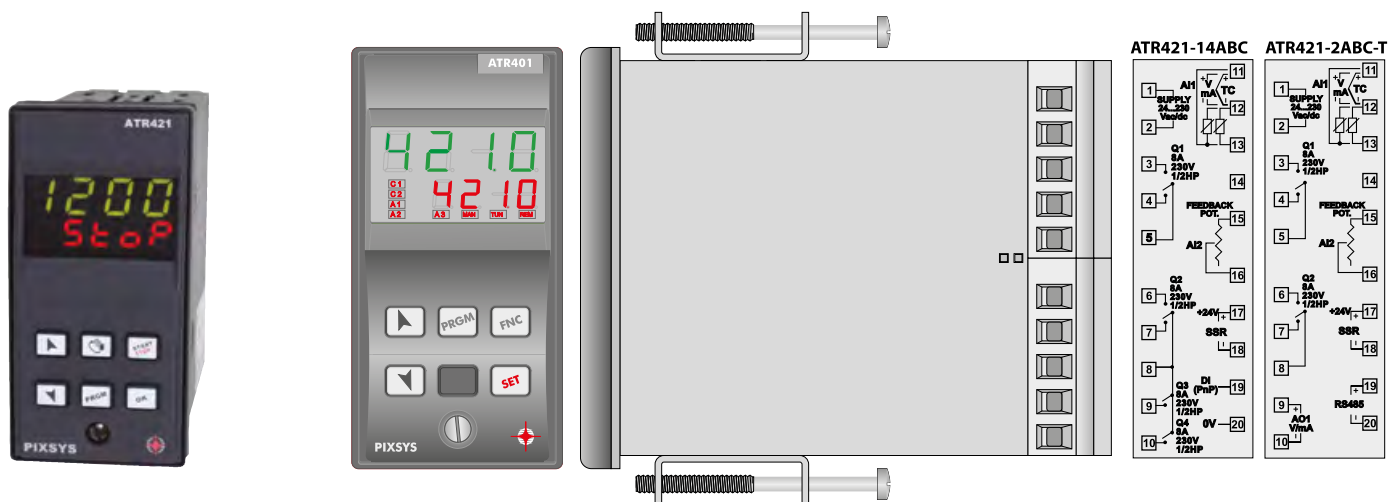
- Network configuration, general set-up, test functions
- Receipts for regulation parameters and system configurations
- Graphic visualization and recording of temperature and current values

Ordering code

2100.20.012

Supervisor DRR450 (TD850-A, TD900-A)





ATR421

Process controller, programmer 15 cycles, 45 steps

Main features

Box	48 x 96 (front panel) x 123 mm
Power supply	24..230 V AC/DC $\pm 15\%$ 50/60 Hz (selection 24 - 110..230 V AC with jumper) - galvanical isolation 2500V
Power consumption	5,5 VA, 4W
Display	4 digits 0,4" green + 4 digits 0,3" red
Operating conditions	Temperature 0-45 °C, humidity 35..95 RH%
Material	Box: noryl UL94V1 self-extinguishing; front panel: silicon rubber V0
Weight	Approx. 350 g
Sealing	IP65 (Front panel), IP20 (box and terminal bloks)
Quick set-up options	Memory Card with / without battery, software LABSOFTVIEW

Inputs

1 configurable	Res. 16 bit, selectable for TC type K, S, R, J (automatic compensation of the cold junction 0..50 °C, $\pm 0,2\%$ F.S. ± 1 Digit F.S.), thermoresistances PT100, PT500, PT1000, Ni100, PTC1K, NTC10K (β 3435K), process signals 0..10 V (54000 points), 0/4..20mA (40000 points)
1 digital input	1..9 cycle selection, Hold, Run, "Open door" lock (code 14ABC)
1 potentiometer input	Position signal by potentiometer for servo/motorized-valves

Outputs

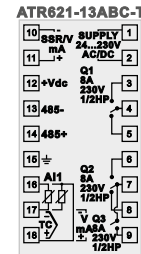
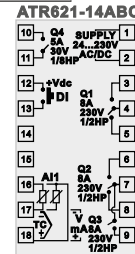
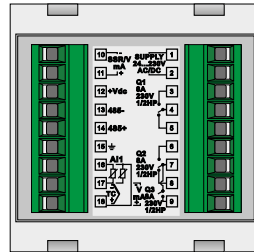
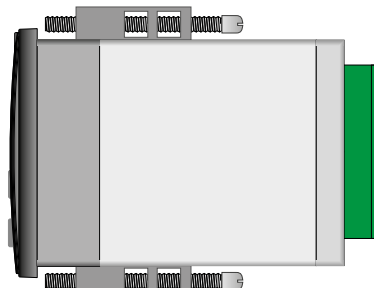
2..4 relays	Relay 8 A - 250 V AC resistive charge
1 SSR	24 V DC - 25 mA max
1 analogue	Selection SSR 12 V DC - 0/4..20 mA (6000 points $\pm 0,2\%$ F.S.) or 0..10 V DC (9500 points $\pm 0,2\%$ F.S.) for command or retransmission PV/SPV (code 12ABC-T)
Serial communication	RS485 Modbus RTU - Slave (4800..57600 baud code 12ABC-T) galvanically isolated from power supply - inputs - outputs

Software features

Control algorithms	ON - OFF with hysteresis, P, P.I., P.I.D., P.D. time-proportioned
Tuning	Manual or automatic
Data protection	Lock of control / alarm setpoint, Access to parameters by password
Alarm modes	Absolute / Threshold, band, High / Low deviation, timed auxiliary programmable for single steps
Gas mode	Open / Close logic for motorized valves, management of burners and fan, GID selection (management of burners during falling steps)
Waiting function	Special function to compensate differences SPV / PV in case of overloaded system
Cycle recovery	Resume the cycle after unexpected power failure
Setpoint controller mode	Regulation on a fixed setpoint (function might be enabled from general menu or during a cycle in progress)
Delayed start	Cycle start delayed by decremental timer

Ordering codes

ATR421-14ABC	1 analogue input + 1 digital input + 4 relays 8 A + 1 SSR 12 V DC
ATR421-12ABC-T	1 analogue input+ 2 relays 8 A + 1 SSR 12 V DC, 1 Output V/mA + RS485



ATR621

Process controller, programmer 15 cycles, 45 steps

Main features

Box	72 x 72 (front panel) x 99 mm
Power supply	24..230 V AC/DC $\pm 15\%$ 50/60 Hz - galvanical isolation 2500V
Power consumption	5,5 VA
Display	Display 4 digit 0,5" green + Display 4 digit 0,3" red + 9 leds
Operating conditions	Temperature 0-45 °C, humidity 35..95 RH%
Material	Box: Noryl UL94V1 self-extinguishing; front panel: silicon rubber V0
Weight	Approx. 250 g
Sealing	Front panel IP54 (with gasket), Box IP30, Terminal blocks IP20
Quick set-up options	Memory Card whit/without battery, software LABSOFTVIEW

Inputs

1 configurable	Res. 16 bit, selectable for TC type K, S, R, J, N, E (automatic compensation of the cold junction 0..50 °C, $\pm 0,2\%$ F.S. ± 1 Digit F.S.), thermoresistance PT100, process signals 0..10 V (54000 points), 0/4..20mA (40000 points)
1 digital input	1..5 cycle selection, Hold, Run, "open door" lock, Emergency

Outputs

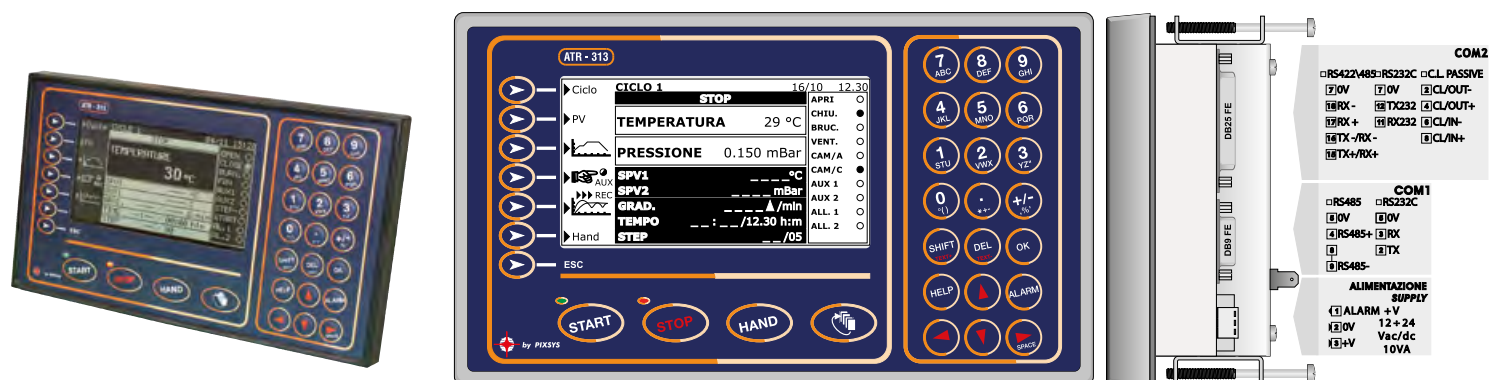
Relays	2 / 3 relays 8 A - 250 V AC resistive charges
Relays	1 relay 5 A - 30 V AC
1 Linear	0/4..20mA or 0..10 V
1 SSR	12 V DC - 30 mA max
1 analogue	Selection SSR 12 V DC - 0/4..20 mA (6000 points $\pm 0,2\%$ F.S.) or 0..10 V DC (9500 points $\pm 0,2\%$ F.S.) for command or retransmission PV/SPV (code 13ABC-T)
Serial communication	RS485 Modbus RTU - Master/Slave (4800..57600 baud)

Software features

Control Algorithms	ON - OFF with hysteresis, P., P.I., P.I.D., P.D. time proportioned
Autotune	Manual or automatic
Data protection	Access to parameters by password
Alarm mode	Absolute/Threshold, band, High/Low deviation, timed auxiliary programmable for single steps.
PV/SPV retransmission	Analogue in V/mA or RS485 serial
Waiting function	Special function to compensate differences SPV / PV in case of overloaded system
Cycle recovery function	Resume the cycle in case of unexpected power failure
Setpoint controller mode	Regulation on a fixed setpoint (function might be enabled from general menu or during a cycle in progress)
Delayed start	Cycle start delayed by decremental timer

Ordering codes

ATR621-12ABC	1 analogue input + 2 relays 8 A + 1 SSR 12 V DC + 1 digital input
ATR621-13ABC-T	1 analogue input + 3 relays 8 A + 1 Output V/mA/SSR + RS485
ATR621-14ABC	1 analogue input + 3 relays 8 A + 1 relay 5A (30V) + 1 digital input



ATR313

Graphic terminal, process controller 20 cycles, 30 steps

Main features

Box	251 x 146 (front panel) x 66 mm
Power supply	12..24 V AC/DC $\pm 10\%$ 50/60 Hz
Power consumption	10W
Display	Graphic LCD 240x128, monochrome, Reverse option, programmable contrast and backlighting operation
Operating conditions	Temperature 0-45 °C, Humidity 35..95 RH%
Material	Box: chromed steel; front frame: ABS; Keyboard: polycarbonate
Weight	Approx. 1350 gr
Sealing	IP65 (Front panel), IP20 (Box and Terminal bloks)
Memory Card	Upload/download parameters and cycles, Firmware upgrade

Inputs

Analogue-digital inputs	See PL300
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Outputs

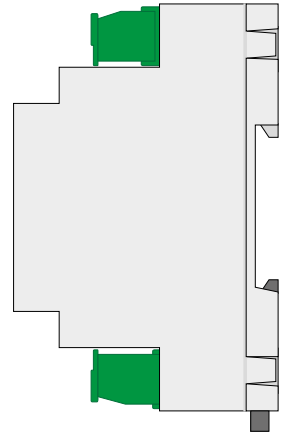
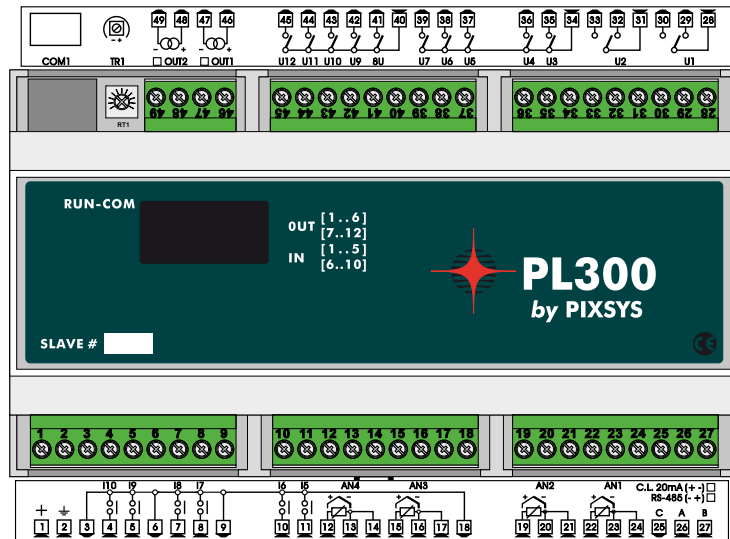
Analogue/digital outputs	See PL300
Serial communication	RS485 Modbus RTU - Master, RS232, RS422

Software features

Control algorithms	ON - OFF with hysteresis, P., P.I., P.I.D., P.D. time proportioned
Data protection	Access to parameter by password, special password to define operator access levels
Alarm options	Absolute / Threshold, band, High / Low deviation, auxiliary functions programmable for each step, programmable type of action on the running cycle, text of alarm messages may be entered by keyboard, alarm source selectable by the user
Waiting function	Special function to compensate differences SPV / PV in case of overloaded system
Cycle recovery function	Resume the cycle after unexpected power failure
Functions for gas-fired kilns	Management of modulating valves by additional PL250
Visualization options	Selection of visualized process values, selection of menus related to function keys, selectable language (Italian, English, German), optional customer logo loaded at starting

Ordering codes

ATR313-1AD	Graphic terminal, LCD display, alphanumeric keyboard
Acquisition modules	See PL300
2100.30.001	Memory card Series TD240-TD320-ATR313



PL300

I/O - Data acquisition, actuation module for PLC / HMI

Main features

Box	Standard DIN43880 160 x 90 x 58 (H) mm with DIN RAIL mounting fittings EN50022
Power supply	12..24 V AC/DC $\pm 15\%$ 50/60 Hz
Power consumption	10W
Operating conditions	Temperature 0-45 °C, humidity 35..95 RH%
Material	Noryl V0
Weight	Approx. 460 gr.
Sealing	IP20 Box

Inputs

Analogue	4 Selectable for TC (30000 points, automatic compensation of the cold junction 0..50 °C, $\pm 0,3\%$ F.S.), K, J, S, R, T, E, PT100 (25000 points), PT500 (25000 points), Ni1000 (25000 points), Ni100 (25000 points), 0/4..20 mA (40000 points), 0..1 V (40000 points), 0..10 V (40000 points)
Sampling time	250 ms
Accuracy	0,5% ± 1 Digit
Digital	6 PNP inputs

Outputs

Digital	12 relays 5A resistive charge
Analogue	2 selectable by dip-switch as 0..10 V or 4..20mA for retransmission or command
Communication ports	1 serial RS232 on plug + 1 serial RS485 on Plug or on extractable terminal

Software features

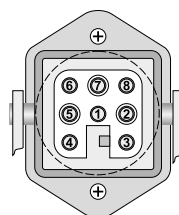
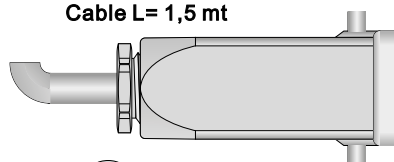
HMI - Operator interface	ATR313/ATR640 for kilns or environmental chambers, TD240 / TD320 / SCADA for other industrial applications for supervisory/monitoring functions
Communication protocol	Modbus RTU Slave
Analogue inputs control algorithms	ON - OFF with hysteresis, P, P.I., P.I.D., P.D. time-proportioned

Ordering codes

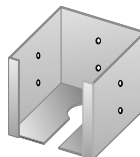
PL300-10AD	4 An. Inp. + 6 Digital + 12 relays + 2 outputs V/mA
PL300-30AD	4 An. Inp. + 6 Digital + 4 SSR-12 V + 8 relays + 2 outputs V/mA
2100.30.010	M.c.Upgrade Series PL250-PL260-PL300-EPL101



Cable L= 1,5 mt



- 1 - Neutral
 - 2 - Neutral
 - 3 - Thermocouple +
 - 4 - Thermocouple -
 - 5 - Power supply (phase)
 - 6 - Control output (phase)
 - 7 - Aux output (phase)
 - 8 - Not Connected
- OPTIONAL :**
Multipolar Connector
for panel-mounting
Cod. 0400.70.001



OPTIONAL :
Support
for panel-mounting
Cod. 1300.20.043

ATR902

Plug-in process controller 15 cycles, 18 steps

Main features

Box	120 x 65 (front panel) x 65 mm
Power supply	24..230 V AC/DC $\pm 15\%$ 50/60 Hz - galvanical isolation 2500V
Power consumption	4W
Display	Display 4 digits 0,56" red + 4 digits 0,4" green + Bargraph
Operating conditions	Temperature 0-45 °C, Humidity 35..95 RH%
Material	Box: ABS; Front panel: polycarbonate
Weight	Approx. 550 gr
Sealing	IP65 (Front panel), IP20 (Box and Terminal bloks)
Accessori	Connector 7poles/female (kiln side), Bracket for panel mounting

Inputs

1 Configurable	Res. 16 bit, selectable for TC type K, S, R, J, T, N, E (automatic compensation of the cold junction 0..50 °C, $\pm 0,3\%$ F.S. ± 1 Digit F.S.)
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Outputs

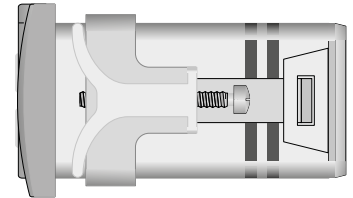
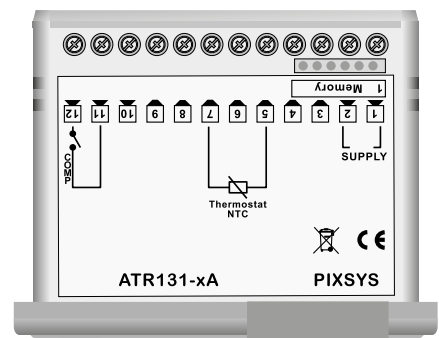
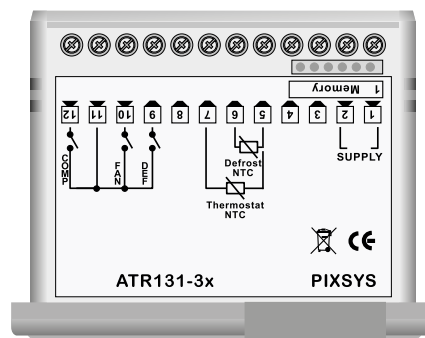
Relay	1 relay 1A - 250 V AC resistive charge + 1 relay 1A - 250 V AC alarm / auxiliary
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Software features

Control algorithms	ON - OFF with hysteresis, P., P.I., P.I.D., P.D. time proportioned
Tuning	Automatic, Automatic predictive
Data protection	Access to parameters by password, Setpoint modification during cycle only if enabled by parameter
Alarm options	Absolute / Threshold, band, High / Low deviation, timed auxiliary programmable on single steps
Hold function	Hold current setpoint value, with Start / Stop by keyboard
Waiting function	Special function to compensate differences SPV / PV in case of overloaded system or system inertias
Cycle recovery function	Resume the cycle after unexpected power failure
Setpoint controller mode	Regulation on a fixed setpoint (function might be enabled by general menu or during a cycle in progress)
Delayed start	cycle start delayed (function might be enabled by parameter)

Ordering codes

ATR902-12ABC	1 analogue input + 2 relays 1A - 230 V AC/DC
0400.70.001	Harting connector 8P (optional)
1300.20.043	Wall mounting support (optional)



ATR131

Thermostat for refrigeration / HVAC

Main features

Box	32 x 74 (front panel) x 53 mm
Power supply	24 V AC / 115 V AC / 230 V AC $\pm 15\%$ 50/60 Hz - galvanical isolation 3750V
Power consumption	3 W
Display	3 digits 0,56" red + 3 signaling leds
Operating conditions	Temperature 0-45 °C, humidity 35..95 RH%
Material	Box: Noryl UL94V1 self-extinguishing, front panel: PC ABS UL94V0 self-extinguishing
Weight	Approx. 100 g
Sealing	Front panel: IP54 (with gasket) , Box IP30, Terminal blocks IP20
Quick set-up options	Memory Card with / without battery

Inputs

Sensors	1 NTC10K - B 3435K (ATR131-1x) / 2 NTC10K - B 3435K (ATR131-3x)
Accuracy	0.5% $\pm$ 1digit
1 Digital input	1/2 setpoint selection, Heat/Cool regulation selection

Outputs

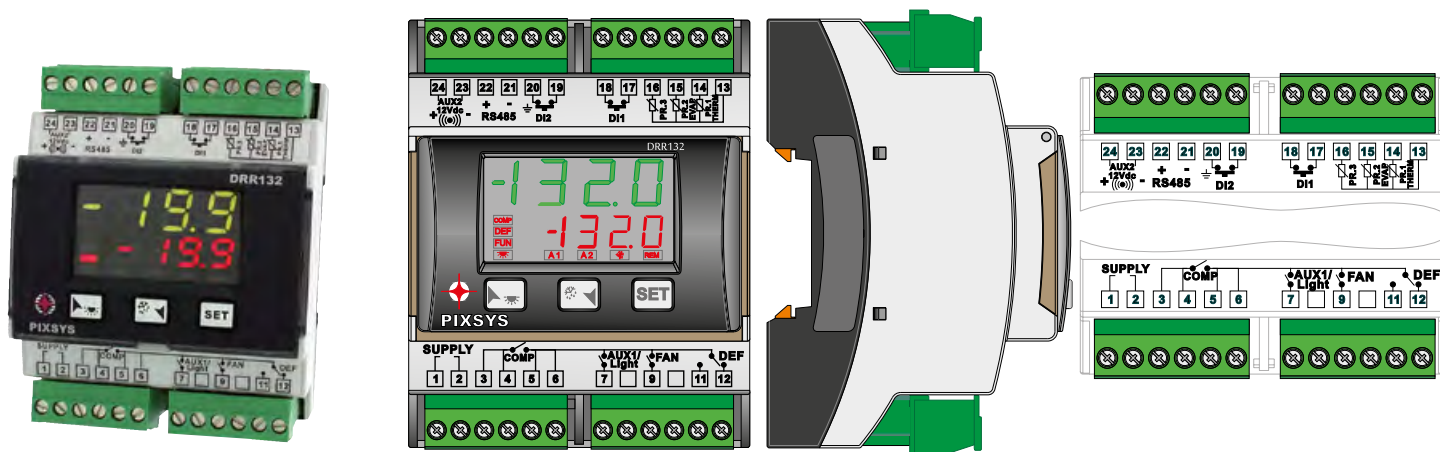
Compressor	1 relay 10A - 250 V AC resistive charge
Defrosting	1 relay 8A - 250 V AC resistive charge (ATR131-3x)
Fans	1 relay 5A - 250 V AC resistive charge (ATR131-3x)

Software features

Control algorithms	ON - OFF with hysteresis
Defrosting functions	Programmable defrost frequency and mode, time counting type, end-defrosting temperature and maximum defrosting time
Data protection	Lock against close compressor starts, Lock of control setpoints, access to parameters by password.
Heating function	NTC range selection -40..50°C or 0..100°C

Ordering codes

ATR131-1A	1 Inp. NTC - 1 relay / Supp. 24 V AC $\pm 10\%$ 50/60Hz
ATR131-1B	1 Inp. NTC - 1 relay / Supp. 220 V AC $\pm 10\%$ 50/60Hz
ATR131-1C	1 Inp. NTC - 1 relay / Supp. 115 V AC $\pm 10\%$ 50/60Hz
ATR131-3A	2 Inp. NTC - 3 relays / Supp. 24 V AC $\pm 10\%$ 50/60Hz
ATR131-3B	2 Inp. NTC - 3 relays / Supp. 220 V AC $\pm 10\%$ 50/60Hz
ATR131-3C	2 Inp. NTC - 3 relays / Supp. 115 V AC $\pm 10\%$ 50/60Hz



DRR132

Controller for refrigeration / HVAC

Main features

Box	DIN43880, Din rail mounted DIN EN50022
Power supply	230 V AC $\pm 15\%$ 50/60 Hz - galvanical isolation 2500V
Power consumption	3 W
Display	4 digits 0,4" green + 4 digits 0,3" red
Operating conditions	Temperature 0-45 °C, humidity 35..95 RH%
Material	Box: polycarbonate V0; Front panel: silicon V0
Weight	Approx. 195 g
Sealing	IP65 (Front panel), IP20 (Box and terminal bloks)
Quick set-up options	Memory Card with / without battery, extractable terminal blocks

Inputs

Sensor inputs	2 selectable for PTC1K, NTC10K (B 3435K)
Fixed	1 for NTC10K (B 3435K)
Sampling time	20 ms
Accuracy	0,5% +/- 1 digit
Digital inputs	2, selectable for lights command or setpoint modification

Outputs

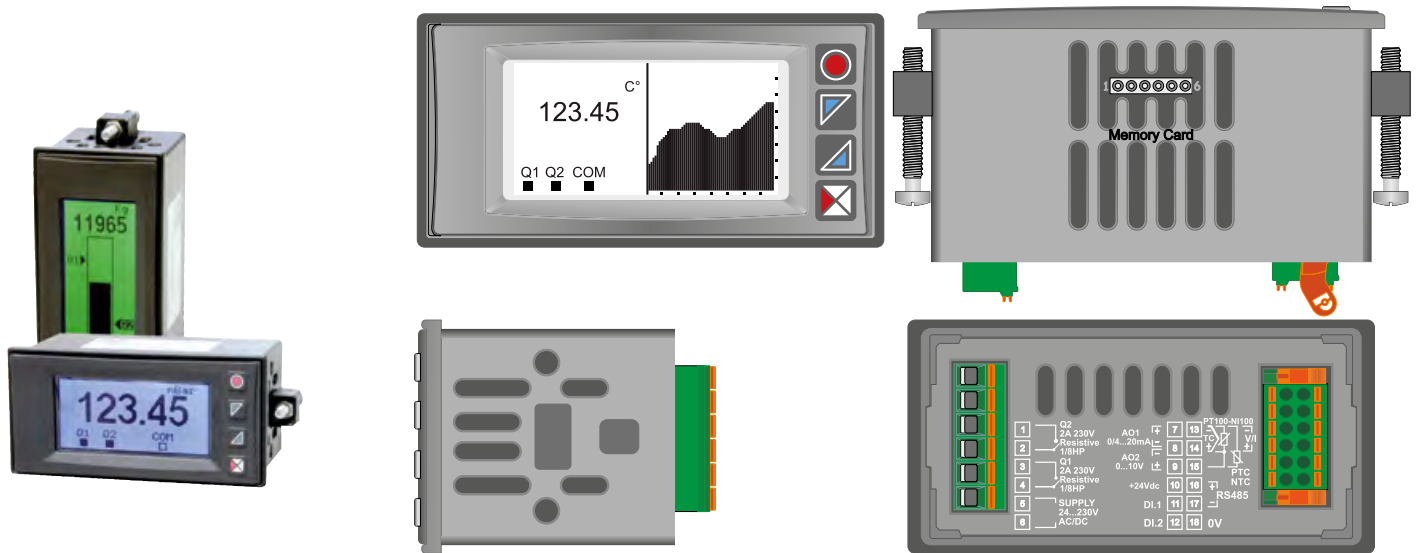
Compressor	Relay 30 A - 250 V AC resistive charge
Defrosting	Relay 8 A - 250 V AC resistive charge
Lights	Relay 8 A - 250 V AC resistive charge
Fan	Relay 8 A - 250 V AC resistive charge
1 SSR	24 V DC - 25 mA max for Buzzer / Auxiliary command
Serial communication	RS485 Modbus RTU - Slave

Software features

Control algorithms	ON - OFF with hysteresis
Defrosting functions	Programmable defrosting frequency and mode, time counting type and maximum defrosting time
Data protections	Lock against closer compressor starts, Lock of control setpoints, Access to parameters by password

Ordering code

DRR132-4B-T	2 Inp. NTC10K, PTC1K + 4 relays 30A/8 A + 1 Static 12 V DC + RS485 Modbus RTU / Slave
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STR550

Indicator / Panel meter

Main features

Box	96 x 48 (Front panel) x 48 mm / or 1/8Din
Power supply	24..230 V AC/DC $\pm 10\%$ 50/60 Hz - galvanical isolation 2500V
Power consumption	6 W
Operating conditions	Temperature 0-45 °C, humidity 35..95 RH%
Material	Box: Polycarbonate V0
Weight	Approx. 165 g
Sealing	IP54 (Front panel) with gasket - IP20 (Box and Terminal blocks)
Quick set-up options	Software LABSOFTVIEW and/or Memorycard
Wiring	Extractable terminal blocks and spring locking

Inputs

1 analogue (16 bit)	Res. 16 bit, selectable for TC type K, S, R, J, T, E, N, B (automatic compensation of the cold junction 0..50 °C, $\pm 0,2\%$ F.S. ± 1 Digit F.S.), thermoresistances PT100, PT500, PT1000, Ni100, PTC1K, NTC10K (β 3435K), process signals 0..10 V (54000 points), 0/4..20mA (40000 points), 0..60 mV (16000 points), potentiometer 6 K Ω , 150 K Ω (50000 points) Customizable linear input (max 16 steps)
2 Digital	PNP inputs programmable for Run / Hold / Tare-Zero / Alarms manual reset / Peaks reset/ Min. peak reset Activate-Reset Sum / Parameters-Setpoints Lock

Outputs

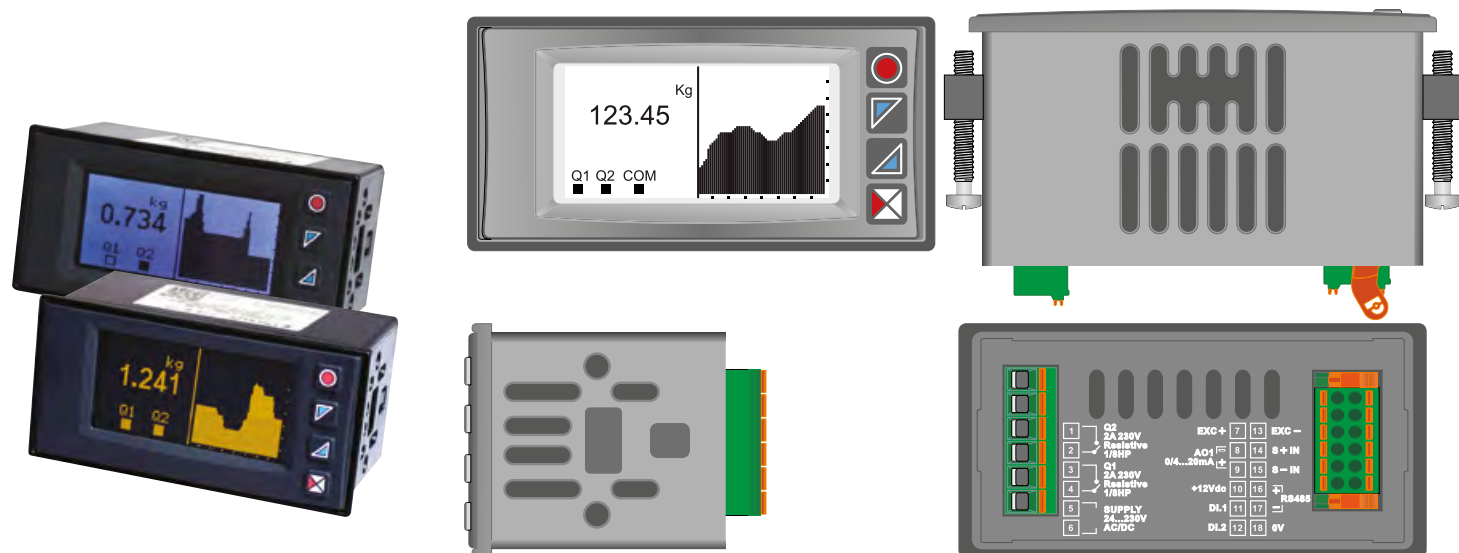
2 relays	Contacts 2A - 250 V AC (resistive charge)
2 analogue outputs	1 output 0..10 V (60000 points) - 1 output 0/4..20mA (60000 points)
1 Auxiliary output	24 V DC / 30mA for external sensors supply (loop-powered)
Serial communication	RS485 Modbus RTU - Slave (1200..115200 Baud) galvanically isolated from power supply - inputs - outputs

Software features

Alarms regulation	ON - OFF with hysteresis
Alarm mode	Absolute / Threshold, Band with instantaneous / delayed / retentive / by digital input activation, Sensor failure / Activation by serial line
Sum Function	By digital input or by keyboard it is possible to sum different process measurements over time
Totalizer Function	Visualisation of instant process value and total value since last reset
Trend visualization	Trend visualisation with selectable time basis 1s to 3600s
Analogue retransmission	Process values / Setpoints
Digital transmission via RS485	Process values / Setpoint / Parameters
Latch-on function	Semi-automatic setting of limits/ calibration values for analogue input
Data Logger	Data logger function with selectable time basis 1s to 3600s, tot memory 2,5k words
Text menus	English/Italian/Deutsch/French/Spanish

Ordering code

STR550-12ABC-T	1 analogue input + 2 relays 2A + 1 Out 0..10V + 1 Out 0/4..20mA + RS485 Modbus RTU /Slave
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STR560 / 561

Strain gauge indicator

Main features

Box	96 x 48 (Front panel) x 48 mm / or 1/8 DIN
Power supply	24..230 V AC/DC $\pm 10\%$ 50/60 Hz - galvanical isolation 2500V
Power consumption	6 W
Operating conditions	Temperature 0-45 °C, humidity 35..95 RH%
Material	Box: polycarbonate V0
Weight	Approx. 165 g
Sealing	IP54 (front panel) with gasket - IP20 (box and terminal blocks)
Quick set-up options	Software LABSOFTVIEW and/or Memorycard Micro USB
Wiring	extractable terminal blocks and spring locking

Inputs

1 analogue	Strain gauge input resolution up to 23 bit, selectable speed conversion from 1Hz (8000000 points 23 bit) to 1200 Hz (30000 points 15 bit) - Linearity < 0.01% F.S. - thermal drift < 0.001% F.S. / °C max 2 350 Ω parallel load-cells or max 4 720 Ω load-cells. Max input signal 39 mV
2 Digital	PNP inputs programmable for Run / Hold / Tare-Zero / Alarms manual reset / Peaks reset/ Min. peak reset Activate-Reset Sum / Parameters lock

Outputs

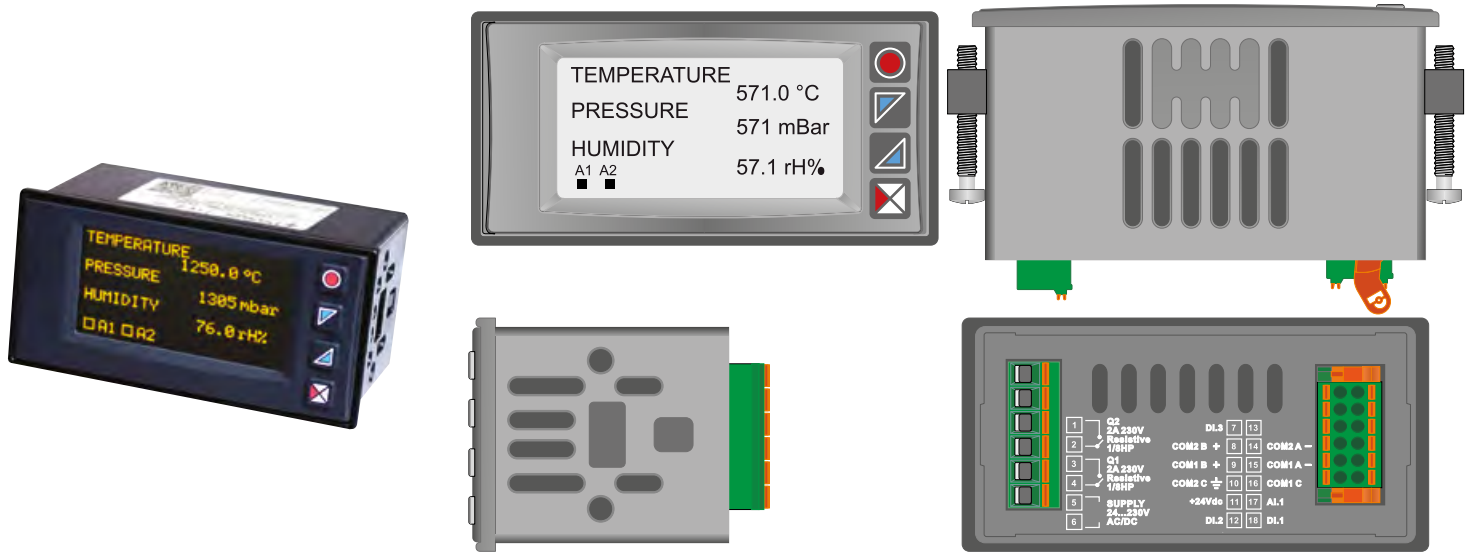
1 strain gauge power supply	5 V DC 35mA max.
2 relays	Contacts 2A - 250 V AC (resistive charge)
1 analogue outputs	1 Configurable as 0..20mA or 4..20mA. Resolution 16bit +/-0.2% F.S.
1 auxiliary output	12 V DC / 30mA for digital inputs
Serial communication	RS485 Modbus RTU - Slave (1200..115200 Baud) galvanically isolated from power supply / Inputs / Outputs

Software features

Alarms regulation	ON - OFF with hysteresis
Alarm mode	Absolute / threshold, band with instantaneous / delayed / retentive / by digital input activation, sensor failure / activation by serial line
Sum Function	By digital input or by keyboard it is possible to sum different process measurements over time
Totalizer Function	Visualisation of instant process value and total value since last reset
Trend visualization	Trend visualisation with selectable time basis 0,1s to 3600s
Analogue retransmission	Process values / Setpoints
Digital transmission via RS485	Process values / Setpoint / Parameters
Calibration function	Sampling value, full scale % value, value mV/V.
Data Logger	Data logger function with selectable time basis 1s to 3600s, tot memory 2k words
Text menus	English/Italian/Deutsch/French/Spanish

Ordering codes

STR560-12ABC-T128	1 Strain gauge analogue input + 2 relays 2A + 1 Out 0/4..20mA + RS485 Modbus RTU /Slave + LCD Display (8 backlight colors)
STR561-12ABC-T128	1 Strain gauge analogue input + 2 relays 2A + 1 Out 0/4..20mA + RS485 Modbus RTU /Slave + OLed Display (monochromatic yellow)



STR571

Modbus remote display

Main features

Box	96 x 48 (front panel) x 48 mm / or 1/8 DIN
Power supply	24..230 V AC/DC $\pm 10\%$ 50 / 60 Hz - galvanical isolation 2500V
Power consumption	6 W
Operating conditions	Temperature 0-45 °C, humidity 35..95 RH%
Material	Box: polycarbonate V0
Weight	Approx. 165 g
Sealing	IP54 (front panel) with gasket - IP20 (box and terminal blocks)
Quick set-up options	Software LABSOFTVIEW
Wiring	Extractable terminal blocks and spring locking

Inputs

3 Digital inputs	2 digital PNP/NPN inputs programmable to enable outputs, reset alarms, lock configuration, increase/decrease value, front panel encoder for input data, 1 digital input programmable to select values
1 Potentiometer input	1 potentiometer input (min 4.7K Ω , 4096 points) to set variable value

Outputs

2 relays	Contacts 2A - 250 V AC (resistive charge)
1 Auxiliary output	24 V DC / 30 mA for external sensors supply

Communication

2 Serial	1 RS485 Modbus RTU/Ascii master / multimaster galvanically isolated (1200..115200 baud) to communicate with slave devices, 1 RS485 Modbus RTU Slave (1200..115200 Baud)
1 USB	1 USB Virtual COM port for configuration and firmware upgrade

Software features

8 Variables	Up to 8 variable data management, programmable visualization from 1 to 4 variable each page, editable text description field for each variable (max 16 characters), editable measure unit for each variable (max 5 characters), 1, 16 or 32 bit data format, mnemonics text visualization (value from 0 to 4), different type of processing visualized data
2 Alarms	ON - OFF with hysteresis
Alarm mode	Absolute / threshold, band with instantaneous / delayed / retentive / by digital input activation, activation by serial line
Multimaster	Ability connect up to 16 master devices on the same serial line
Interface	Text menus (English/Italian/Deutsch/French/Spanish)
Option	Optional front panel encoder management to facilitate input of data

Ordering code

STR571-1ABC-T128	1 RS485 Modbus master + 1 RS485 Modbus slave + 2 relays 2A
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IMODVIEW

Monitoring and supervision software for Pixsys controllers, RS485-Modbus RTU

The software provides the process information, reading and writing of the setpoint and display alarm status for each controller. Also is possible view the progress of the process on a graph on the screen, record all processes on file in csv format, and export the file via USB stick.

Main features

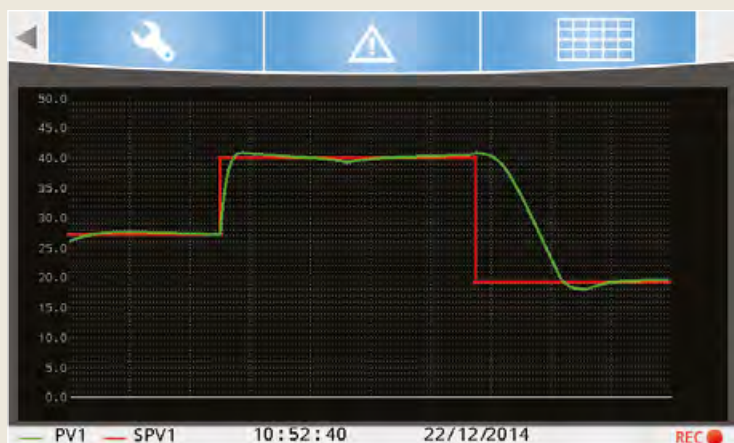
Supported devices	ATR121-ADT, ATR141-ADT, ATR142-ABC-T, ATR171-23ABC-T, ATR243-21ABC-T, ATR401-22ABC-T, DRR245-21ABC-T, DRR450-12AT128, ATR421-12ABC-T, ATR621-13ABC-T, STR550-12ABC-T, STR560-12ABC-T, STR561-12ABC-T128, ATR313-1AD
Number of zone	30 zone (version TD700), 60 zone (version TD900)
Datalogger	min sample time 1 sec. Max 1000000 sample recorder in csv file.

Software features

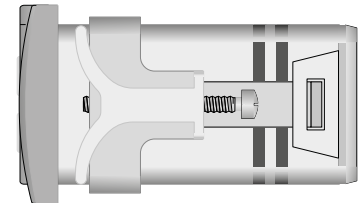
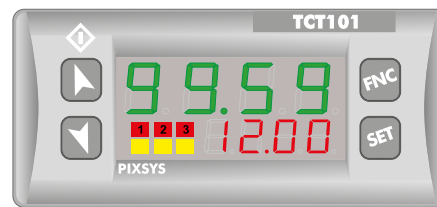
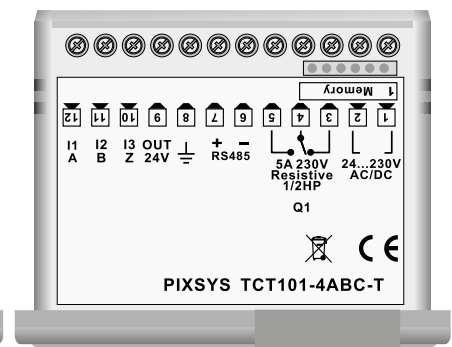
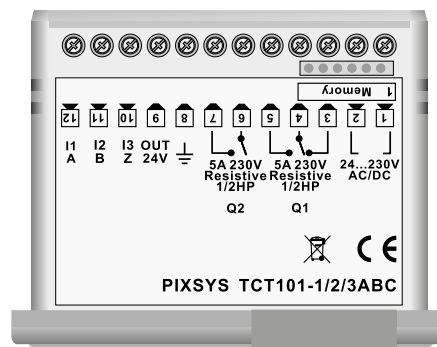
Trend	Single trend for each zone with historical of 5 last hours
Setpoint	Possibility of change single setpoint or global setpoint
Alarms	Alarm active for each zone, historical alarms (100 records).
Export file	by USB key or by Ethernet connection.
Languages	Italian, English, German, French and Spanish

Ordering codes

2100.20.010	Runtime iModViewCE 30 zone (TD700-AD)
2100.20.014	Runtime iModViewX86 60 zone (TD900-A)



Alarm	Date	Hours	Level	Group	Event
Off Line Zone 7	15/04	08:20	1	Serial com.	ACT
Off Line Zone 1	12/04	15:21	2	Serial com.	ACT
Off Line Zone 4	12/04	15:21	2	Serial com.	ACT
Off Line Zone 3	12/04	15:21	2	Serial com.	ACT
Off Line Zone 2	12/04	15:21	2	Serial com.	ACT
Off Line Zone 5	12/04	15:21	1	Serial com.	ACT
Off Line Zone 6	12/04	15:20	1	Serial com.	ACT
Off Line Zone 7	12/04	15:20	1	Serial com.	ACT
Off Line Zone 8	12/04	15:20	1	Serial com.	ACT
Off Line Zone 8	03/04	10:52	1	Serial com.	DEACT
Off Line Zone 8	03/04	10:52	1	Serial com.	ACT
Up. Dev. alarm Zone4	02/04	16:58	1	Zone Alarms	ACK



TCT101

Timer - Counter - Tachometer - Multi-function device + RS485



Main features

Box	32 x 74 (front panel) x 53 mm
Power supply	24..230 V AC/DC $\pm 15\%$ 50/60 Hz - galvanical isolation 2500V
Power consumption	3 VA
Display	4 digits 0,4" green + 4 digits 0,3" red
Operating conditions	Temperature 0-45 °C, humidity 35..95 RH%
Material	Box: Noryl UL94V1 self-extinguishing; front panel: PC ABS UL94V0 self-extinguishing
Weight	Approx. 100 g
Sealing	Front panel IP65 (with gasket), box IP30, terminal blocks IP20
Quick set-up options	Memory Card with / without battery, software LabSoftView

Inputs

3 Digital	Selectable as NPN - PNP - TTL, both high/low/rising edge level
Input I3	Input selection by potentiometer 5/10 K Ω for entering of setpoint value (resolution 1000 points)

Outputs

1/2 relays	2 relays 5A - 250 V AC resistive charge (not for 4ABC-T) 1 relay 5A - 250 V AC resistive charge (code 4ABC-T)
Serial communication	RS485 Modbus RTU - Slave (110..57600 Baud code 4ABC-T)

Software features

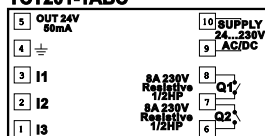
Timer input selection	Start, Stop, Hold, Reset, Wait
Ranges	Programmable time bases (s/100 , s/10 , s, min , hours)
Counter input selection	Up, Down, Lock, Hold
Counting frequency	Incremental / Decremental up to 100 KHz
Counter functions	Count frequency visualization on red display for Flowmeter function
Tachometer input selection	For mono / bi-directional Push/Pull or Line/Driver encoders up to 100 KHz
Tachometer functions	Maximum / Minimum peak
Data protection	Parameters protected by password

Ordering codes

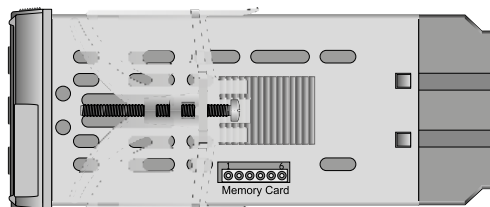
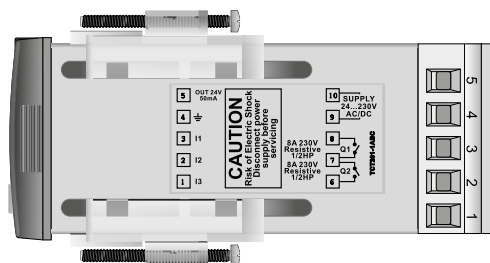
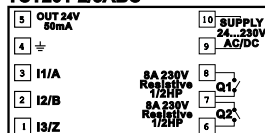
TCT101-1ABC	Timer - settable in 5 modes
TCT101-2ABC	Counter - incremental, decremental or bi-directional (encoder)
TCT101-3ABC	Tachometer - for Push-Pull / Line-Driver encoders (mono/bi-directional)
TCT101-4ABC-T	Timer / Counter / Tachometer - with RS485 Modbus RTU/slave serial communication



TCT201-1ABC



TCT201-2/3ABC



TCT201

Timer - Counter - Tachometer

Main features

Box	48 x 48 (front panel) x 107 mm
Power supply	24..230 V AC/DC $\pm 15\%$ 50/60 Hz - galvanical isolation 2500V
Power consumption	3 VA
Display	4 digits 0,4" green + 4 digits 0,3" red + led
Operating conditions	Temperature 0-45 °C, humidity 35..95 RH%
Material	Box: Noryl UL94V1 self-extinguishing; front panel: PC ABS UL94V0 self-extinguishing
Weight	Approx. 100 g
Sealing	Front panel IP65 (with gasket), Box IP30, terminal blocks IP20
Quick set-up options	Memory Card with / without battery, software LabSoftView

Inputs

3 Digital	Selectables as NPN - PNP - TTL, both on high/low/rising edge level
Input I3	Input selection by potentiometer 5/10 K Ω for setting of setpoint value (resolution 1000 points)

Outputs

2 relays	2 relays 8 A - 250 V AC resistive charge
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Software features

Timer inputs selection	Start, Stop, Hold, Reset, Wait
Ranges	programmable Time basis s/100, s/10, s, min, hours
Counter inputs selections	Up, Down, Lock, Hold
Count frequency	Incremental / Decremental up to 100 KHz
Counter functions	Counting frequency visualization on red display for flowmeter function
Tachometer input selection	For mono/bi-directional Push/Pull or Line/Driver encoders up to 100 KHz
Tachometer functions	Maximum / Minimum peak
Data protection	Parameters protected by password

Ordering codes

TCT201-1ABC	Timer - settable in 5 modes
TCT201-2ABC	Counter - incremental, decremental or bi-directional (encoder)
TCT201-3ABC	Tachometer - for Push-Pull / Line-Driver encoders (mono/bi-directional)



ADAPTERS

Panel-mounting adapters and cover plates

Adapters and cover plates are useful when replacing existing instrumentation with new devices in different dimensions. Panel-mounting by plastics fittings and screw.

Ordering codes

1300.20.099	Adapter 72x72 to 48x48
1300.20.059	Adapter 96x96 to 48x48
1300.20.058	Adapter 96x96 to 48x96
1300.20.029	Adapter 96x96 to 72x72
1300.20.063	Adapter 48x96 to 32x74
1300.20.217	Adapter 48x96 to 48x48
1300.20.169	Cover plate 32x74
1300.20.064	Cover plate 48x48
1300.20.065	Cover plate 48x96
1300.20.066	Cover plate 72x72
1300.20.070	Cover plate 96x96
1600.00.082	External gasket 32 x 74
1600.00.097	External gasket 48 x 48
1600.00.099	External gasket 72 x 72

These adapters enable installation on DIN rail also for panel-mounted devices. Available sizes 32x74mm, 48x48mm (1/16 DIN) and 48x96mm (1/8 DIN).

Ordering codes

1300.50.001	DIN Rail adapter 32x74mm
1300.50.003	DIN Rail adapter 48x48mm (1/16 DIN)
1300.50.004	DIN Rail adapter 48x96mm (1/8 DIN)

SOCKETS FOR SSR - RELAYS

Din-rail adapters/supports for Celduc SSR and relays

Sockets with integrated pin for relays with amperage between 8 and 16A, as well as for SSR with load charges up to 4A. Useful on control panels where the process control instrumentation needs actuators as interface to the load.

DIN-rail mounting and screw terminals.

Ordering codes

1200.10.004	Sockets DIN EN50022 (ESD05000)
1200.00.032	Relay 24V 16A 250 V AC 1 C/O
2200.00.103	SSR Inp. 24V AC/DC / out 230V 4 A AC (series SPA07420)
2200.00.104	SSR Inp. 24V AC/DC / out 230V 2 A AC (series STA07220)



2000.35.010 / 015



DIN B head converter - RFid / NFC

Main features

Box	23 mm, Ø 45 mm
Current output	4..20 mA loop power (2 wires), operating range 6-32 V DC
Connection	Screw pins
Mounting	DIN/B head
Operating temperature	-40+85 °C, Humidity 30..90 RH%
Material	Nylon (PA66)
Weight	Approx 30 g
Sealing	IP 20
Conformity	CE, EN 61000-6-4, EN 61000-6-2
Set-up	Programmable by RFid (NFC)

Technical data

Selectable input	PT100 (2/3/4 wires), Ni100, TC K-S-R-J-T-N-B-E
Isolation	Galvanic isolation input/output
Output resolution	1µA
Range output	Over F.S. + 5°C, Under F.S. - 5°C
Failure output	selectable 21,5mA or 3,8mA
Current output protection	30 mA approx.
Rejection	50-60 Hz
Max transmission error	greater between 0,1% f.s. or 0,2°C
Sampling/Response time	300ms / approx. 600 ms
Cable resistance	Max 20Ω
Temperature coefficient	< 100 ppm

Ordering codes

2000.35.010	RTD (PT100 / Ni100 / PT1000) to 4..20 mA loop powered
2000.35.015	RTD (PT100 / Ni100)+ TC (K-S-R-J-T-N-B-E) to 4..20 mA loop powered
2000.35.012	Programmer RF/RFID > USB

2000.35.016/017

DIN rail converter - RFid / NFC

Main features

Box	DIN43880, Din rail mounted 1 module
Current output	4..20 mA Loop Power (2 wires), operating range 6-32 V DC
Connection	Screw pins
Operating temperature	-40+85 °C, Humidity 30..90 RH%
Material	Box: polycarbonate V0; Front panel: silicon V0
Weight	Approx 30 g
Set-up	Programmable by RFid (NFC)

Technical data

Selectable analogue input	PT100 (2/3/4 wires), Ni100, TC K-S-R-J-T-N-B-E, 0..20 mA, 4..20 mA, 0..10 V, 10 Ω..200 KΩ
Digital Input	Button for calibration functions
Isolation	Galvanic isolation input/output
Output resolution	1µA
Failure output	selectable 21,5mA or 3,8mA
Current output protection	30 mA approx.
Rejection	50-60 Hz
Sampling/Response time	300ms / approx. 600 ms
Cable resistance	Max 20Ω
Temperature coefficient	< 100 ppm

Ordering codes

2000.35.016	RTD (PT100 / Ni100)+ TC (K-S-R-J-T-N-B-E) to 4..20 mA loop powered
2000.35.017	0..20 mA / 4..20 mA / 0..10V / resistance to 4..20 mA loop powered



2000.35.021

Energy Meter



Main features

Dimension	46,1 x 63 x 26,4
Power supply	9..30 V DC
Connection screw	Terminal 5,08mm
Fixing	DIN-rail (horizontal/vertical)
Operating conditions	Temperature -15..+65 °C RH 10..90% not condensing
Material	PBT, grey
Weight	Approx. 80 g
Overvoltage category	Cat III up to 600V; Cat II up to 1000V
Conformity standards	EN61000-6-4/2006 + A1 2011, EN64000-6-2/2005, EN61010-1/2010

Technical data

Current range	Up to 50 A AC/DC
Voltage range	Up to 800 V AC or 1000V DC
Measurement	Irms, Vrms, Watt, Var, Va, Vpk, Ipk, Frequency, Cosφ, Energy bidirectional, THD
Accuracy	Voltage, Current, Active Power, Reactive Power, Apparent power: < 0,5% F.S. Frequency: +/- 0,1 Hz. Energy: +/- 1% of reading. Vpeak, I peak: +/- 5% f.s.
Sampling rate	11k Samples per Second
Input impedance	1 MΩ +/-1%
Hysteresis	0,15% f.s.
Output	Modbus RTU RS485

Ordering code

2000.35.021	Energy meter > Modbus RTU/slave RS485
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2000.35.013 / 014

Converter - current transformer



Main features

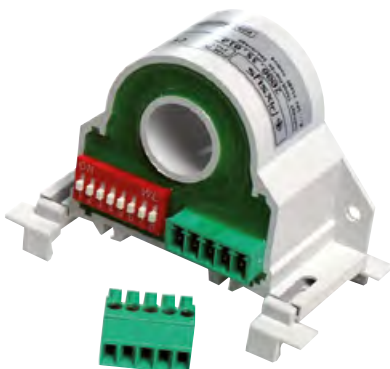
Dimensions	46,1 x 63 x 26,4 mm (terminal block excluded)
Power supply	Loop-powered (2 wires) operating range 11-30 V DC 12..35 V DC on version with RS485
Connection	screw terminal 5,08mm
Fixing	DIN-rail (horizontal / vertical)
Operating conditions	Temperature -40+85 °C, humidity 10..90 uR%
Material	Gray PBT, epoxy resin filling
Weight	Approx. 72 g
Conformity standards	CE, EN 61000-6-4, EN 61000-6-2, EN 61010-1

Technical data

Measure type	TRMS
Resolution - Accuracy	12 Bit - 0,5% full scale
Current range	50 Arms or 25 Arms selectable by Dip-Switch, bipolar (+/-50A AC or +/-25A DC)
Output	4..20mA or 0..10 V + Modbus RTU RS485
Passband	-3dB DC or 20..2000Hz
Response speed	1000 ms
Isolation	3 Kv on bare cable
Overload	2 kA impulsive, 300 continuous
Hysteresis on meas. value	0,15% full scale

Ordering codes

2000.35.013	Current transformer > 4..20 mA loop powered
2000.35.014	Current transformer > RS485 Modbus RTU /slave + 0..10 V





PROGRAMMABLE SYSTEM

PLPROG



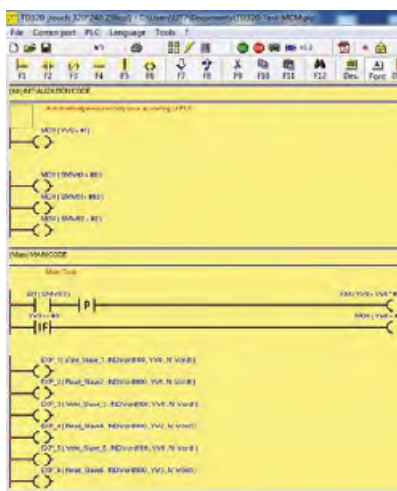
Pixsys development environment for PLC and SOFT-PLC programming. It supports Ladder Diagram (LD) language for a straight-forward, simple approach to programming.

Main features

Supported devices	EPL101, PL110, PL250, PL260, TD240, TD320
Programming languages	Ladder diagram
Function library	Counters, timers, mathematical operations, rescale function, PID functions, serial free port function
Protocol for transfer PLC code	serial RS232 or RS485 with Pixsys cable
Simulation / Live	possible only with device connected, supported on ladder diagram and real time value of variables
Debug code	
Backup options	Memory card creation (only with source code) for quick programming

Ordering Code

PLProg	Free download form website reserved area (www.pixsys.net)
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TDDESIGNER

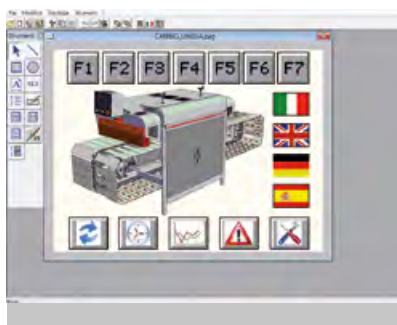
TdDesigner is the development environment for graphics of TD240 and TD320. It relies on object-oriented programming; available features include importing of bitmaps on backgrounds and buttons, bitmap animations related to variables (bar-graphs, level monitoring..), programmable thresholds on objects, management of multilingual applications.

Main features

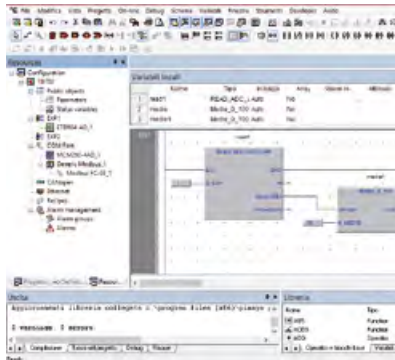
Supported devices	TD240, TD320
Programming	Graphical object programming
Graphic importing function	BMP format images (only 256 colors)
Graphic library	Bitmap image library
Language support	Multilanguage function (only latin alphabet)
PLC interface	Direct access to PLC variables
Protocol for transfer PLC code	serial RS232 or RS485 with Pixsys cable

Ordering Code

TdDesigner	Free download form website reserved area (www.pixsys.net)
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LOGICLAB



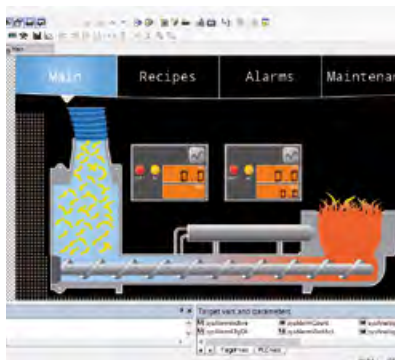
Main features

Supported devices	PL470, PL471, TD430, TD700, TD750, TD850, TD900
Programming languages	Instruction List, Structure Text, Ladder Diagram, Function Block Diagram, Sequential Function Chart, standard IEC 61131-3
Function library	Counters, timers, mathematical operations, rescale function, PID functions, recipes, alarms, datalogger, function for file on PLC memory, serial free port function
Protocol for transfer code	Ethernet TCP/IP, standard cable
Simulation / Debug code	Possible without device connected, supported on logic and real time value of variables
Backup options	USB key creation (only with source code) for quick programming

Ordering Code

LogicLab	Free download form website reserved area (www.pixsys.net)
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PAGELAB



Main features

Supported devices	TD430, TD700, TD750, TD850, TD900
Programming	Graphical object programming
Graphic importing function	JPEG, JPG, PNG, BMP format images (full colors)
Graphic library	Image library
Language support	Multilanguage function (full European and Russian alphabet)
PLC interface	Direct access to PLC variables by single file
Protocol for transfer code	Ethernet TCP/IP, standard cable

Ordering Code

PageLab	Free download form website reserved area (www.pixsys.net)
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MOVICON



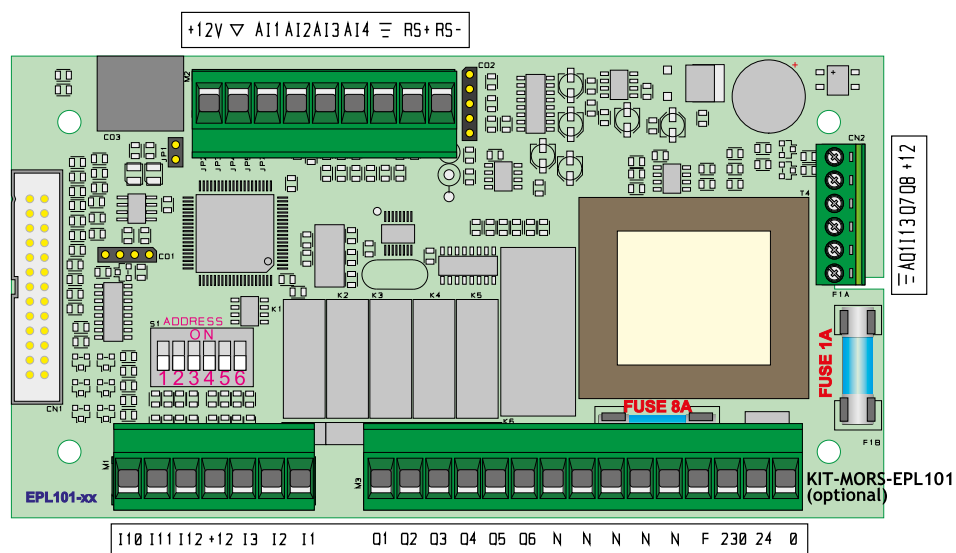
Main features

Supported devices	TD430, TD700, TD750, TD850, TD900
Programming	Graphical object programming
Graphic importing function	JPEG, JPG, PNG, BMP format images (full colors)
Graphic library	Vector image library
Language support	Multilanguage function (full European and Russian alphabet)
PLC interface	Direct access to PLC variables by single file
Protocol for transfer code	Ethernet TCP/IP, standard cable

Ordering Codes

TD430/TD700	
2400.35.001	Runtime Movicon 11 CE Lite 1024 I/O Byte
2400.35.003	Runtime Movicon 11 CE Full 2048 I/O Byte

TD750/TD850/TD900	
2400.35.007	Runtime Movicon 11 OEM x86 64 I/O Byte
2400.35.008	Runtime Movicon 11 OEM x86 128 I/O Byte
2400.35.002	Runtime Movicon 11 OEM x86 512 I/O Byte
2400.35.003	Runtime Movicon 11 OEM x86 4096 I/O Byte



EPL101

PLC board 11 Inp / 9 Out

Main features

Size	151 x 80 mm
Power supply	24/230 V AC $\pm 15\%$ 50/60 Hz transformer with double primary - galvanical isolation 3000V
Power consumption	4W
Operating conditions	Temperature 0-45 °C, humidity 35..95 RH%
Weight	Approx. 280 g.
Wiring harness	Extractable terminal bloks or plug
Connection for display	(Optional) 26 poles connector for customized displays (7 segments)

Inputs

Analogue	4 selectable for TC (40000 points, automatic compensation of the cold junction 0..50 °C, $\pm 0,3\%$ F.S.) K, J, S, R, T, E, PT100 (50000 points), Ni100 (50000 points), 0/4..20 mA (50000 points), 0..1 V (50000 points), 0..10 V (1000 points)
Digitals	6 inputs PNP + 1 input NPN
Inputs for Encoders	2 Digitals (overlapped to input PNP) for bi-directional encoder (1 KHz), 1 Digital (overlapped to input NPN) for mono-directional encoder (2 KHz)

Outputs

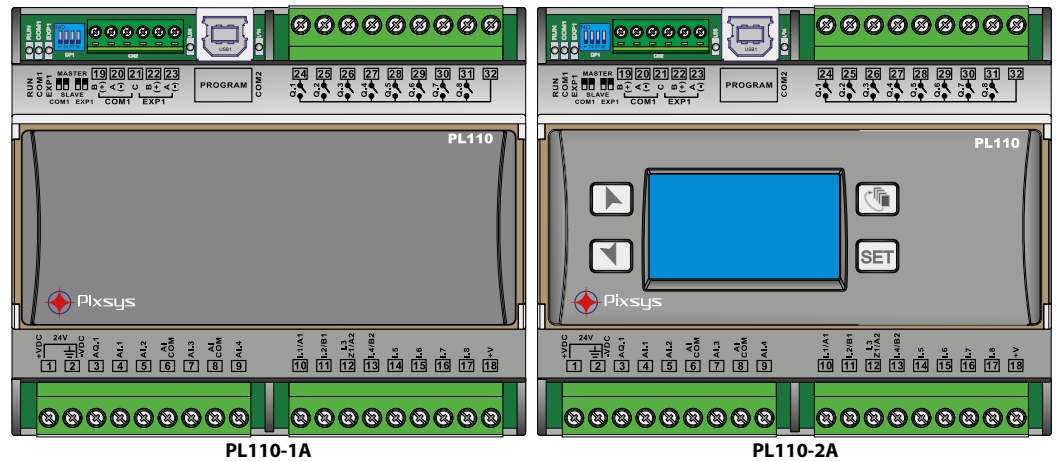
Digitals	5 relays 5A resistive charge + 1 relay 16A resistive charge
Analogue	1 0..5 V 8 Bit for command
Open- Collector	2 outputs max 20mA
Communication ports	1 serial RS232 on plug + 1 serial RS485 on plug or on extractable terminal block (110..57600 Baud)

Software features

Programming	Pixsys PLprog software, Ladder diagrams; 128 marker (logic relays), 64 bistables, 96 timer 16 bit, 32 up-down counters, mathematic and logic functions, rescale functions, contacts on bit
Communication protocols	Modbus RTU master / slave; Free-Port mode for Modem protocols or proprietary devices
Memory	64Kbyte Flash for programming, 200 words Ram, 1000 words EEprom, external data memory MMC 32K words optional
Clock	Real-Time clock with Back-up battery (optional)
Analogue input control algorithms	P, PI, PID, PD

Ordering codes

EPL101-1AB	PLC 4 An. Inp. + 6 Digital PNP + 1 NPN + 6 relays + 2 outputs Open-Collector 20mA + 1 output 0..5 V (8 bit)
KIT-MORS-EPL101	Kit Terminal blocks for PLC board EPL101
2100.30.010	M.c.Upgrade Series PL250-PL260-PL300-EPL101
2100.30.011	Expansion Memory 32K PL250
EPL101-RTC	Clock for EPL 101
SB-TERM5	LED Display for EPL101 (5 Digits, 6 keys, 5 led)
2100.10.006	Programming tool PL250 - PL260



PL110

PLC 8+4 Inp. / 8+1 Out

Main features

Box	Standard DIN43880 108 x 90 x 64 (H) mm, mounting clips DIN RAIL EN50022
Power supply	24 V AC/DC $\pm 15\%$ 50/60 Hz
Power consumption	6W
Operating conditions	Temperature 0-45 °C, humidity 5..95 RH%
Material	Noryl V0
Weight	Approx. 250 g
Sealing	IP20 Box
Terminal blocks	Extractable

Inputs

Analogue	AI 1 0/4..20mA (1024 points); AI 2 0..10 V (1024 points); AI 3 NTC-10K (-40..+125°C accuracy 0,5°C) + AI 4 NTC-10K (-40..+125°C accuracy 0,5°C), AI 3 and AI 4 Potentiometer (10K Ω)
Digital	8 PNP
Encoder inputs	2 Encoder bidirectional (overlapped to 4 PNP inp.) 15 KHz / or 25KHz for single Encoder

Outputs

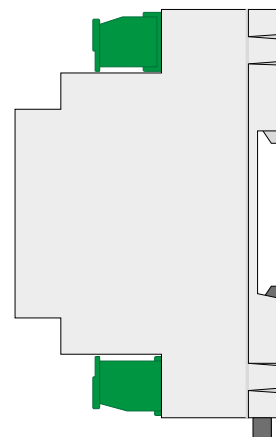
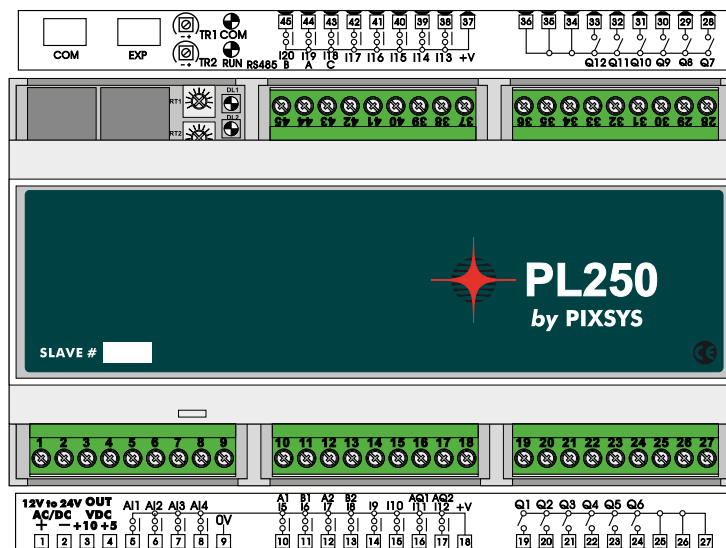
Relays	8 Out 2A/250 V AC/30 V DC resistive load ($\cos\phi=1$) or 1A/250 V AC/30 V DC inductive load ($\cos\phi=0,4$) 6A max total current (Q1..Q8)
Analogue	1 0..10 V (8 bit/256 points)
Programming port	1 USB Type-B Serial port, 2 RS485 on extractable terminal block (110..57600 Baud) galvanically isolated from power supply - inputs - outputs

Software features

Programming	Software Pixsys PLprog, Ladder diagrams; 128 markers (logic relays), 32 bistables, 64 timers 16 bit, 16 up-down counters, mathematical and logic functions, range - rescale, bit contacts, 2 timed interrupts (min. 1 ms)
Scanning cycle	min. 2 ms
Communication protocols	Modbus RTU Master/Slave; free-port for Modem or proprietary devices
Memory	64Kbyte Flash for programming, 350 words Ram retentive (accumulator, 6 months), 1000 words EEprom, internal MMC 13000 words data storage
Clock	Real-Time clock, Back-up battery
Control algorithms for analogue inputs	P, PI, PID, PD

Ordering codes

PL110-1A	PLC 2 An.Inp. NTC-10K / Potentiometer + 1 0..10 V (10Bit) + 1 0/4..20mA (10Bit)+ 8 Inp. PNP + 8 relay Out 2A + 1 Out 0..10 V (8 bit)
PL110-2A	PLC 2 An.Inp. NTC-10K / Potentiometer + 1 0..10 V (10Bit) + 1 0/4..20mA (10Bit)+ 8 Inp. PNP + 8 relay Out 2A + 1 Out 0..10 V (8 bit) with graphic OLED display
2100.30.010	M.c.Upgrade Series PL250-PL260-PL300-EPL101-PL110



PL250

PLC 20 Inp / 12 Out

Main features

Box	Standard DIN43880 160 x 90 x 58 (H) mm with DIN RAIL mounting fitting EN50022
Power supply	12..24 V AC/DC $\pm 15\%$ 50/60 Hz
Power consumption	10W
Operating conditions	Temperature 0-45 °C, humidity 35..95 RH%
Material	Noryl V0
Weight	Approx. 375 gr.
Sealing	IP20 Box

Inputs

Analogue (10bit)	4 inp. 0..10 V (1000 points) or 2 inp. 0..20mA (1000 points) (code 10AD)
Analogue (16bit)	4 selectable for TC (30000 points, automatic compensation of the cold junction 0..50 °C, $\pm 0,3\%$ F.S.), K, J, S, R, T, E, PT100 (50000 points), Ni100 (50000 points), 0/4..20 mA (50000 points), 0..20 mV (50000 points), 0..1 V (50000 points), 0..10 V (1000 points)
Digital	16 inputs PNP
Inputs for Encoders	2 bidirectional encoders (overlapped to 4 inputs PNP) 15 KHz simultaneously / 30KHz single
Auxiliary power supply	Terminal for Potentiometer power supply 10,0 V
Trimmer	2 for regulations and process variables

Outputs

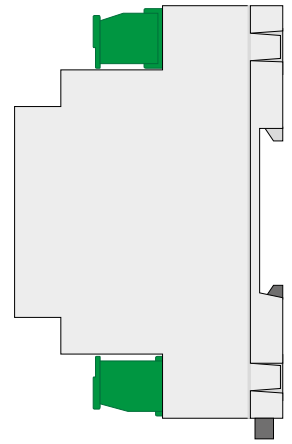
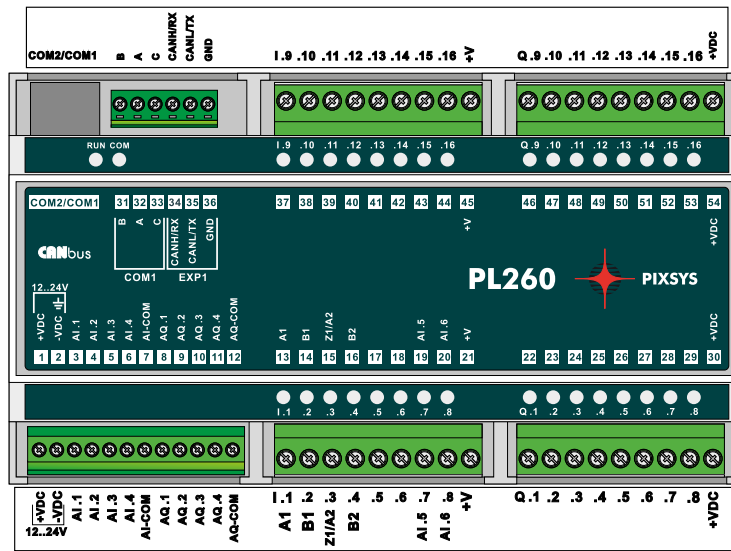
Digital	12 relay outputs 5A - resistive charge
Analogue	2 0..10 V, 8 Bit (overlapped to 2 inputs)
Programming port	2 serial RS232 on plug (110..57600 Baud)
Communication port	1 serial RS485 on plug or on extraible terminal (110..57600 Baud) galvanically isolated from power supply - inputs - outputs

Software features

Programming	Software Pixsys PLprog, Ladder diagrams; 128 markers (logic relays), 64 bistables, 96 timers 16 bit, 32 up-down counters, mathematical and logic functions, range - rescale, contact bits, 2 timed interrupt (min. 1 ms)
Scanning cycle	min. 2 ms
Communication protocols	Modbus RTU master/slave; Free-Port for Modem or proprietary devices
Memory	64Kbyte Flash for programming, 200 words non-volatile Ram memory (6 months), 1000 words EEprom, optional MMC 13000 words
Clock	Real-Time clock, Back-up battery
Control algorithms	P, PI, PID, PD

Ordering codes

PL250-10AD	PLC with 4 An. Inp. (10 bit) + 12 relays 5A
PL250-11AD	PLC with 4 An. Inp. (16 bit for Tc/RTD) + 12 relays 5A
2100.30.010	M.c.Upgrade Series PL250-PL260-PL300-EPL101
2100.30.011	Expansion Memory 32K PL250
2100.10.006	Programming tool PL250 - PL260



PL260

PLC 20 inputs / 20 outputs



Main features

Box	Standard DIN43880 160 x 90 x 58 (H) mm with DIN rail mounting fitting EN50022
Power supply	12..24 V DC $\pm 15\%$ 50/60 Hz
Power consumption	10 W
Operating conditions	Temperature 0-45 °C, humidity 35..95 RH%
Material	Noryl V0
Weight	Approx. 375 g
Sealing	IP20 Box

Inputs

Analogue	4 Selectable for TC (30000 points, automatic compensation of the cold junction 0..50 °C, $\pm 0,3\%$ F.S.), K, J, S, R, T, E, PT100 (50000 points), Ni100 (50000 points), NTC10K (50000 points), PT1000 (50000 points), PT500 (50000 points), PTC1K (50000 points), 0/4..20 mA (50000 points), 0..20 mV (50000 points), 0..1 V (50000 points), 0..10 V (50000 points)
Digitals	16 PNP inputs
Inputs for Encoders	2 Bidirectional encoders (overlapped to 4 PNP inputs) 15 KHz simultaneously / 30KHz single

Outputs

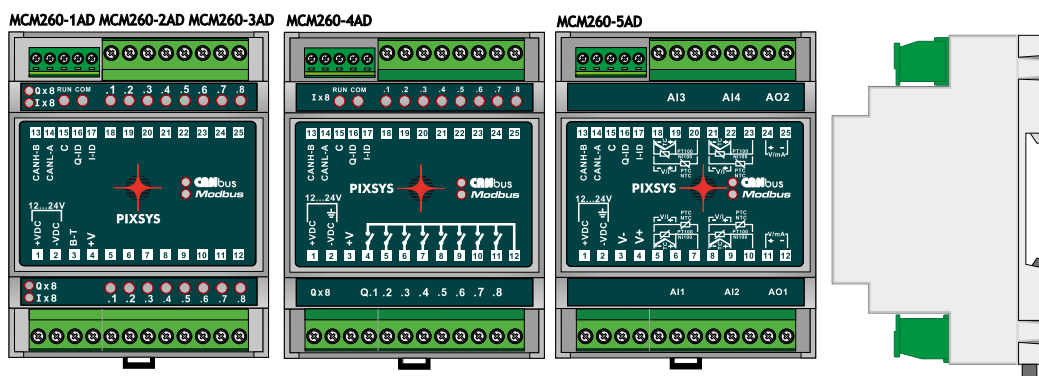
Digital	16 static outputs 700 mA / each output (4A max for groups of 8)
Analogue	2 out 0..10 V - 8 bit + 2 out 0..12,5 V - 13 bit
Programming port	1 serial RS232 on Plug (110..57600 Baud)
Communication port	1 serial RS485 on Plug or on extractable terminal (110..57600 Baud) + 1 Bus for CANopen (max. 1 MBaud) RS232, galvanically isolated from power supply - inputs - outputs

Software features

Programming	Pixsys PLprog software, Ladder diagrams; 128 marker (logic relays), 32 bistables, 64 timers 16 bit, 16 up-down counters, mathematic and logic function, Range - rescale function, contact on bit, 2 timed interrupts (min. 1 ms)
Scanning cycle	minimum 2 ms
Communication protocols	Modbus RTU master/slave; Free-Port mode for Modem or proprietary devices; CANopen Master
Memory	64Kbyte Flash for programming, 350 words non-volatile Ram , 1000 words EEprom, internal MMC data memory 13000 words
Clock	Real-Time clock , Back-up battery
Control algorithms for analogue inp.	P, PI, PID, PD

Ordering codes

PL260-11AD	PLC 4 An. Inp. + 16 Digitali PNP + 16 static outputs 700mA + 4 outputs 0..10 V (10/12 bit)
2100.30.010	M.c.Upgrade Series PL250-PL260-PL300-EPL101
2100.10.006	Programming tool PL250 - PL260



MCM260

I/O expansion module for PLC / HMI

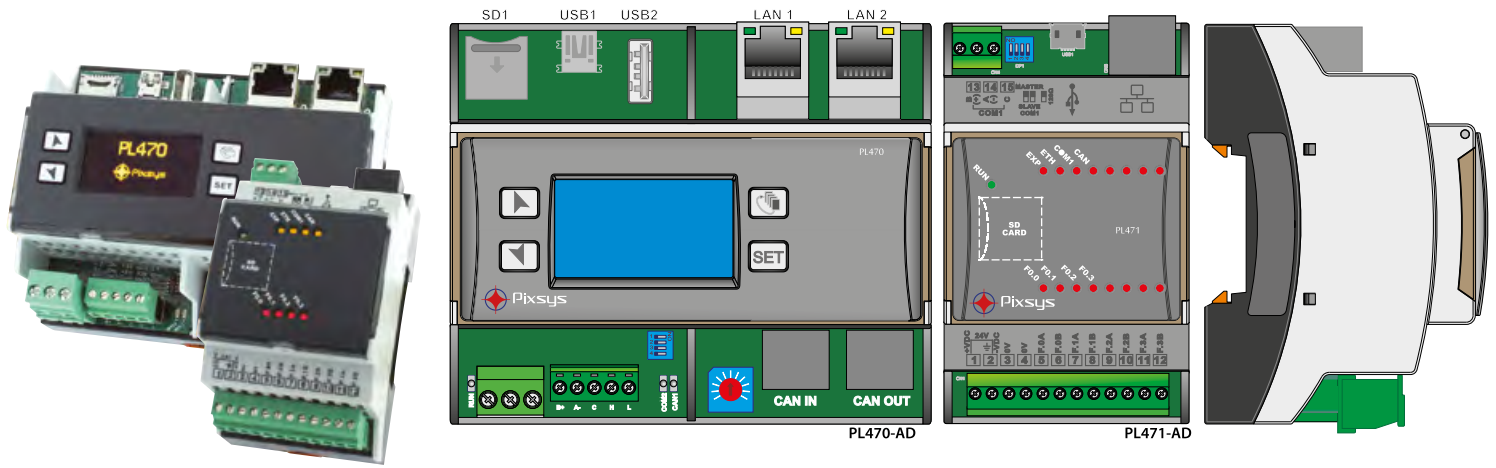


Main features

Box	Standard DIN43880 90 x 71 x 58 (H) mm with DIN RAIL mounting fitting EN50022
Power supply	12...24 V AC/DC $\pm 15\%$ 50/60 Hz
Power consumption	2W ... 4W
Operating conditions	Temperature 0-45 °C, humidity 35..95 uR%
Material	Noryl V0
Weight	Approx. 255 g
Sealing	IP20 Box
Bus Protocol	Modbus RTU slave (RS485 max. 57600 Baud) or CAN Open (max 1 Mbit/sec) with EDS file for net configuration
HMI – Operator interface	PL250/PL260/TD240/TD320/TD430/TD700/TD750/TD850/TD900 SCADA for control or supervision of any industrial plants

Technical feature

Ordering codes	MCM260-1AD	MCM260-2AD	MCM260-3AD	MCM260-4AD	MCM260-5AD
Digital input	-	16 PNP	8 PNP	8 PNP	-
Encoder input	-	1 Enc. 10KHz	1 Enc. 10KHz	1 Enc. 10KHz	-
Counter input	-	2 Count. 2KHz	2 Count. 2KHz	2 Count. 2KHz	-
Analogue input	-	2 over D.I. 2/3 (Res. 10 bit, 5000 points) only 0..10 V	-	2 over D.I. 2/3 (Res. 10 bit, 5000 points) only 0..10 V	4 (Res. 16 bit) selectable: TC type K, S, R, J (automatic compensation of the cold junction 0..50 °C, $\pm 0,2\%$ F.S. ± 1 Digit F.S.), thermoresistances PT100, PT500, PT1000, Ni100, PTC1K, NTC10K (β 3435K), process signals 0..10 V (54000 points), 0/4..20mA (40000 points), 0..60 mV (16000 points), potentiometer 6 K Ω , 150 K Ω (50000 points)
Digital output	16 (700 mA max. 4A Tot.)	-	8 (700 mA max. 4A Tot.)	-	-
Relays	-	-	-	8, 5A res. Load	-
Analogue output	-	-	-	-	2 (Res. 12 bit) selectable: 4..20 mA (6000 points $\pm 0,2\%$ F.S.) or 0..10 V DC (9500 points $\pm 0,2\%$ F.S.)
Galvanic isolation	From supply to serial Bus	From supply to serial Bus	From supply to serial Bus	From supply to serial Bus	From supply to analogue input / output to serial Bus



PL470 / 471

Logic Unit

Main features

Box	Standard DIN43880 108 x 90 x 64 (H) mm, Mounting clips DIN RAIL EN50022
Power supply	12..24 V AC/DC $\pm 15\%$ 50/60 Hz
Power consumption	3 W
Operating conditions	Temperature 0-45 °C, humidity 5..95 RH%
Material	Noryl V0
Weight	ca. 250 g
Sealing	IP20 Box
Terminal blocks	Extractables

Hardware features and communication ports

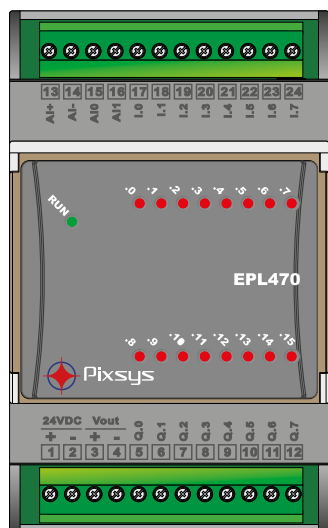
Processor	ARM 450 MHz
Memory	Flash 256 MB / Ram 128 MB
Serial communication	RS485 galvanically isolated
Expansion BUS	EPL-Din-bus (for EPL exp.)
Field bus	CAN galvanically isolated
USB	1 port for programming
Ethernet	2 ports 10/100 Base-T on RJ45 connector in switch mode
Memory card	MicroSD reader
Display	OLED type

Software features

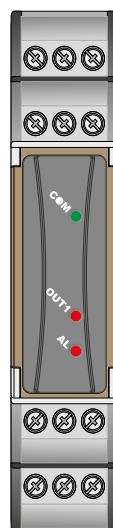
Programming	Pixsys Suite LogicLab IEC 61131-3 languages
Scanning cycle	1 ms
Communication protocols	Modbus RTU Master / slave; Modbus TCP/IP Master / Slave, CAN Open Master
Clock	Real-Time clock
Control algorithms for analogue inp.	P, PI, PID, PD
Web server	Read / Write Plc variables

Ordering codes

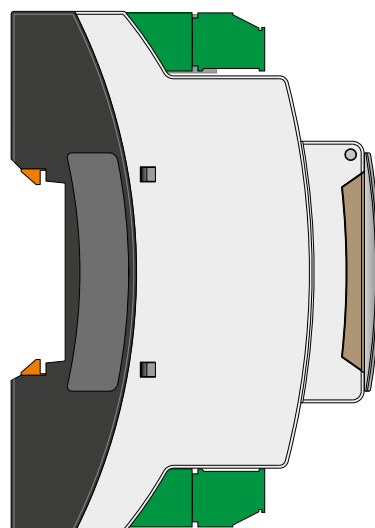
PL470-AD	Logic CPU - 2 Ethernet ports - OLED display
PL471-AD	Logic CPU - 1 Ethernet port



EPL470-1/2/3AD



EPL470-5AD



EPL470

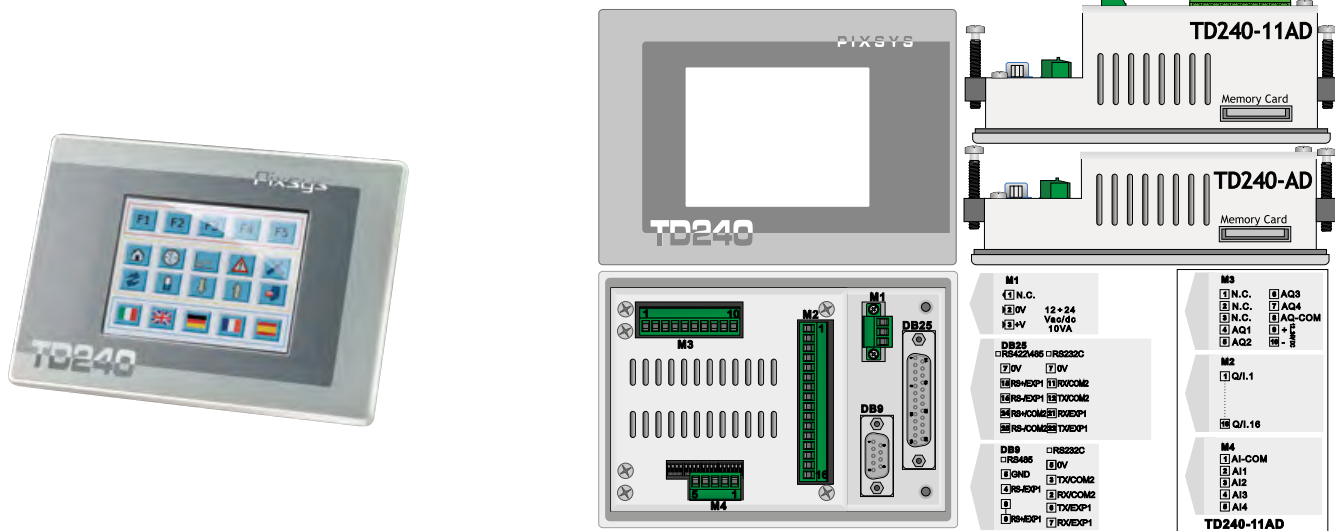
I/O expansion module for EPL-DIN-BUS

Main features

Box	Standard DIN43880 90 x 71 x 58 (H) mm with DIN RAIL mounting fitting EN50022
Power supply	12..24 V DC $\pm 15\%$
Power consumption	2W .. 4W
Operating conditions	Temperature 0-45 °C, humidity 35..95 uR%
Material	Noryl V0
Weight	Approx. 255 gr.
Sealing	IP20 Box
Bus Protocol	EPL-DIN-BUS protocol

Technical feature

Ordering codes	EPL470-1AD	EPL470-2AD	EPL470-3AD	EPL470-5AD
Digital input	-	16 PNP	8 PNP	-
Encoder input	-	2 Enc. 50KHz	2 Enc. 50KHz	-
Analogue input	-	2 (Res. 14 bit) Only 4..20 mA	2 (Res. 14 bit) Only 4..20 mA	1 (Res. 16 bit) selectable: Tc (K,J,S,R), PT100, PT500, PT1000, Ni100 PTC,NTC,0/4..20mA, 0..10V, Res. 6/160 K Ω
Current Transformer input	-	-	-	1 for Current Transformer (T.A.)
PID / Controller	-	-	-	Integrated controller functions
Digital output	16 (700 mA max. 4A Tot.)	-	8 (700 mA max. 4A Tot.)	2, 30 mA
Relays	-	-	-	-
Analogue output	1 (Res. 10 bit) 0..10 V	-	1 (Res. 10 bit) 0..10 V	2 (Res. 12 bit) selectable: 0..10 V, 4..20 mA
Galvanic isolation	From supply to serial Bus	From supply to serial Bus	From supply to serial Bus	From supply to analogue input / output to serial Bus



TD240

Touch-screen HMI 3,5" 256 colors, integrated PLC

Main features

Box	140 x 100 (front panel) x 40 mm (-AD) or 65mm (code 11AD)
Power supply	12..24 V AC/DC $\pm 15\%$ 50/60 Hz (12..24 V DC for code 11AD)
Power consumption	8W
Display	Display LCD TFT 3,5" - 256 colours, integrated resistive touch-screen (life time 10000 h)
Operating conditions	Temperature 0-45 °C, humidity 35..95 RH%
Material	Front panel: aluminium with polycarbonate coverage; box: chromed steel
Weight	Approx. 690 g (code AD), approx. 750 g (code 11AD)
Sealing	IP54 (front panel), IP20 (box and terminal bloks)
Quick set-up options	SLOT Memory Card for programs download (Ladder+graphics)
Expansions	Modules MCM260-1/2/3/4/5 or other Modbus devices

Inputs (code TD240-11AD)

Analogue	4 selectable for TC (30000 points, automatic compensation of the cold junction 0..50 °C, $\pm 0,3\%$ F.S.), K, J, S, R, T, E, PT100 (50000 points), Ni100 (50000 points), NTC10K (50000 points), PT1000 (50000 points), PT500 (50000 points), PTC1K (50000 points), 0/4..20 mA (50000 points), 0..20 mV (50000 points), 0..1 V (50000 points)
Digital	16 selectable as inputs / outputs
Input for encoder	3 encoder / counter 24bit up to 80 KHz (overlapped inputs PNP/TTL)

Outputs (code TD240-11AD)

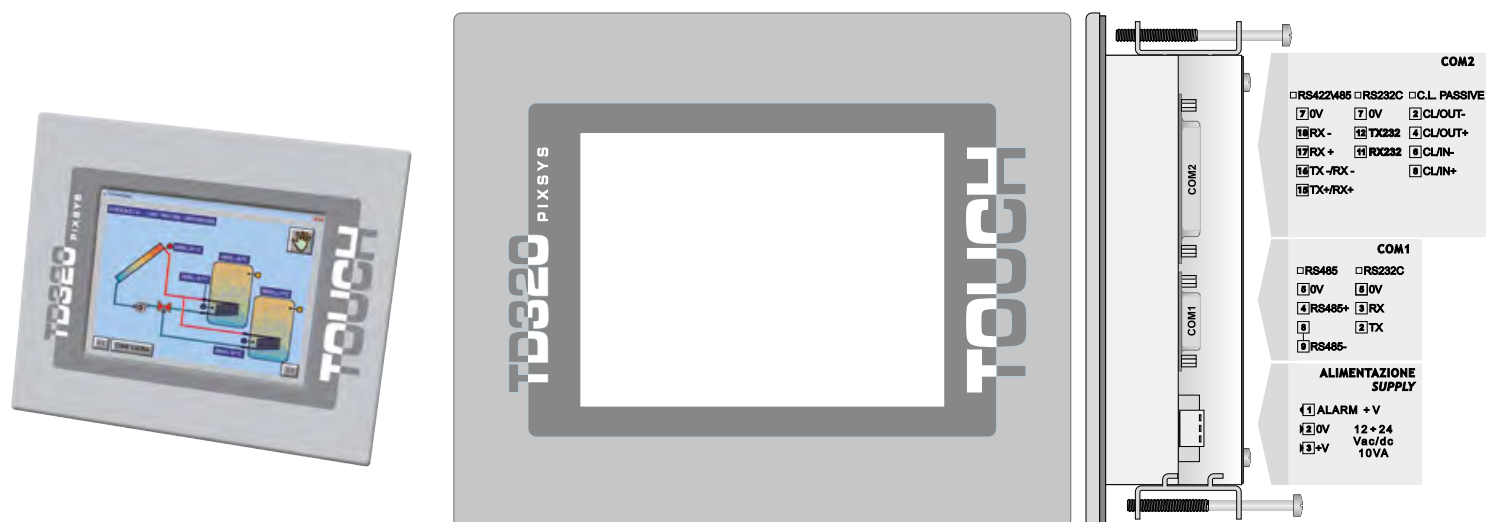
Digital	16 selectable as static outputs 700mA or digital inputs
Analogue	4 outputs 0..10 V -16 bit
Serial ports	2 serial ports RS232 / RS485 (110..57600 Baud)

Software features

Programming	Pixsys PLprog software, Ladder diagrams; 10K words variables VW, 800 marker (logic relays), 128 bistables, 128 timer 16 bit, 64 up-down counters, mathematic and logic functions, rescale function, contact on bit
Graphic interface programming	Pixsys TDdesigner software
Communication protocols	Modbus RTU master / slave; Free-Port mode for Modem protocols or proprietary devices
Memory	384Kbyte flash for programming, 10K words non-volatile Ram (6 months), 1000 words EEprom, 30k words MMC
Clock	Real-Time clock, Back-up battery
Analogue inputs control algorithms	P, PI, PID, PD

Ordering codes

TD240-AD	HMi 3,5" with soft-plc, 2 serial RS232/RS485 - Modbus
TD240-11AD	HMi 3,5" with soft-plc + 16 digital I / O + 4 universal analogue inp. + 4 analogue out 0..10 V + 2 serial RS232/RS485
2100.30.001	M.c.Par Series TD240-TD320-ATR313
2100.10.009	Programming tool



TD320

Touch-screen HMI 5,7" 256 colors

Main features

Box	204x170 (front panel) x 48
Power supply	12..24 V AC/DC $\pm 15\%$ 50/60 Hz
Power consumption	10W
Display	Display LCD TFT 5,7" - 256 colours, integrated resistive touch-screen (life time 30000 h)
Operating conditions	Temperature 0-45 °C, humidity 35..95 RH%
Material	Front panel: aluminium with polycarbonate coverage; box: chromed steel
Weight	Approx. 1430 g
Sealing	IP54 (front panel), IP20 (box and terminal bloks)
Quick set-up options	SLOT Memory Card or program download (Ladder+graphics)
Expansions	Pixsys modules MCM260-1/2/3/4/5 or other Modbus devices

Inputs

Digitals	8 inputs for external contacts on connector 25 poles
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Outputs

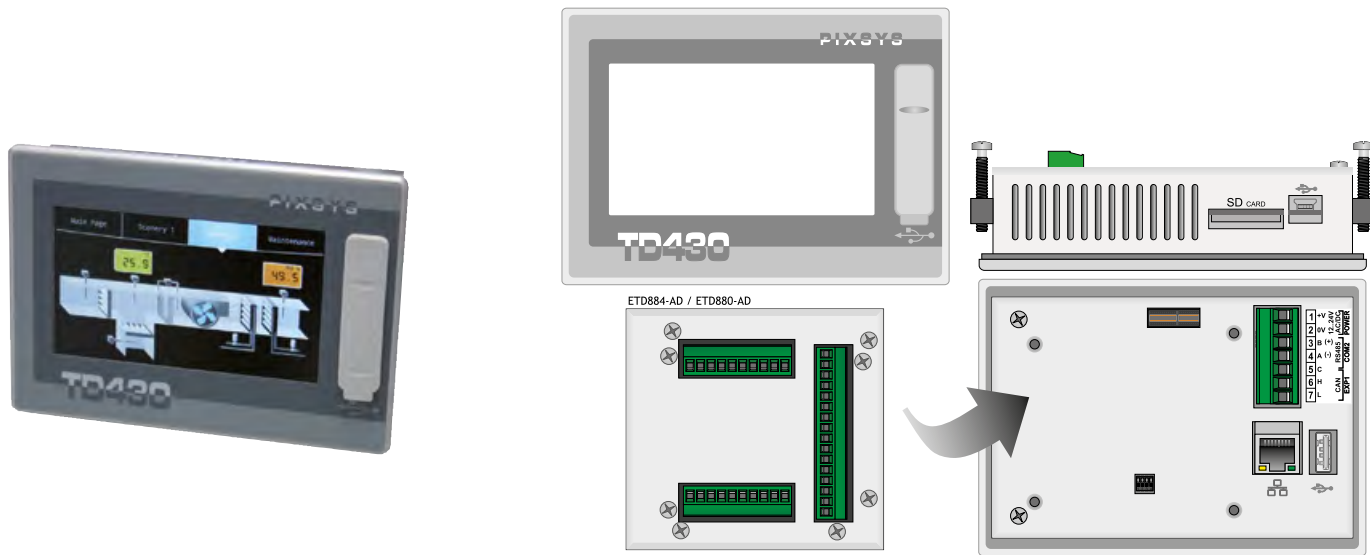
Digital	1 general alarm output
Serial ports	1 programming / communication port with RS232 interface, 1 communication port with RS485/RS422 interface, galvanically isolated, 1 communication port with RS232/RS485 interface (110..57600 Baud)

Software features

Operating logic functioning	Pixsys PLprog software for Ladder diagrams; 10K words variables VW, 800 marker (logic relays), 128 bistables, 128 timer 16 bit, 64 up-down counters, mathematic and logic functions, rescale function, contact on bit
Graphic interface programming	Software Pixsys TDdesigner
Communication protocols	Modbus RTU Master / slave; Free-Port mode for Modem protocols or proprietary devices
Memory	768Kbyte Flash for programming, 10K words non-volatile Ram (6 months), 1000 words EEprom, 30k words MMC
Clock	Real-Time clock, back-up battery

Ordering codes

TD320-AD	HMI 5,7" with soft-plc + 3 serial ports RS232 / RS485 / RS422
2100.30.001	M.c.Par Series TD240-TD320-ATR313
2100.10.009	Programming tool



TD430

Touch-screen Panel PC / HMI with 4,3" Windows CE

Main features

Box	140 x 100 (front panel) x 38
Power supply	12..24 V AC/DC $\pm 15\%$ 50/60 Hz
Power consumption	3,7W
Display	LCD TFT touch screen 4,3" , 480 x 272 pixel, 16M colors (life time 50000 h)
Operating conditions	Temperature 0-45 °C, humidity 35..95 RH%
Material	Front panel: aluminium with polycarbonate coverage; box: chromed steel
Weight	Approx. 476 g
Sealing	IP54 (front panel), IP20 (box and terminal bloks)
Expansion module	1 x ETD884-AD expansion: 2 load cell inp. with integrated power supply for the cell, 8 digital inputs, 2 encoder inputs 24bit PNP/TTL, 8 digital outputs, 2 analogue outputs V/mA, 4 analogue inp. NTC /PTC /V/ mA

Hardware features and communication ports

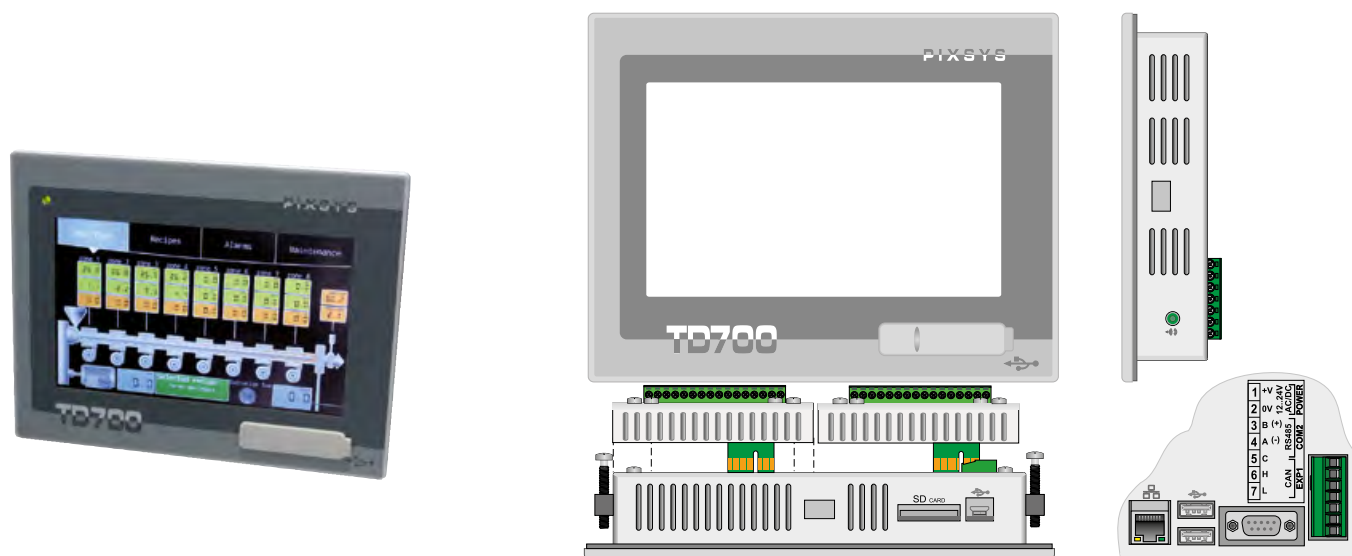
Processor	ARM V4i 200 MHz
Memory	Flash 256 MB
Serial communication	RS485 (1200..115200 Baud) galvanically isolated
Field bus	CAN (70K..1Mbit) galvanically isolated
USB	1 USB 2.0 on frontal + 1 USB 2.0 on back side
Ethernet	1 Ethernet 10/100 Base-T on RJ45 connector
Memory card	SD/MMC Reader

Software features

Operating logic programming	Pixsys suite LogicLab IEC 61131-3 languages
Graphic interface programming	Software Pixsys suite PageLab
Communication protocols	Modbus RTU Master / slave; Free-Port mode for modem protocols or proprietary devices, Modbus TCP/IP
	Master / Slave, CAN Open Master
Clock	Real-Time clock, back-up battery

Ordering codes

TD430-AD	HMI 4,3" with soft-PLC + RS485 + CAN Open
ETD884-AD	Expansion module 2 An. 16bit/1ms (load cells) + 8 Inp. + 8 statics + 2 outputs V/mA
ETD880-AD	Expansion module 8 digital inputs + 8 digital outputs + 2 enc. PNP Resolution 24 bit



TD700

Touch-screen Panel PC / HMI with 7" - Windows CE

Main features

Box	204 x 160 (front panel) x 38
Power supply	12..24 V AC/DC $\pm 15\%$ 50/60 Hz
Power consumption	3,7W
Display	TD700: 7" LCD TFT 800x480 pixel, 16M colors (life time 20000 h)
Operating conditions	Temperature 0-45 °C, humidity 35..95 RH%
Material	Front panel: aluminium with polycarbonate coverage; box: chromed steel
Weight	Approx. 937 g
Sealing	IP54 (front panel), IP20 (box and terminal bloks)
Expansions	2 x ETD884-AD expansion: 2 load cell inp. with integrated power supply for the cell, 8 digital inputs, 2 encoder inputs 24bit PNP/TTL, 8 digital outputs, 2 analogue outputs V/mA, 4 analogue inp. NTC /PTC /V/ mA

Hardware features and communication ports

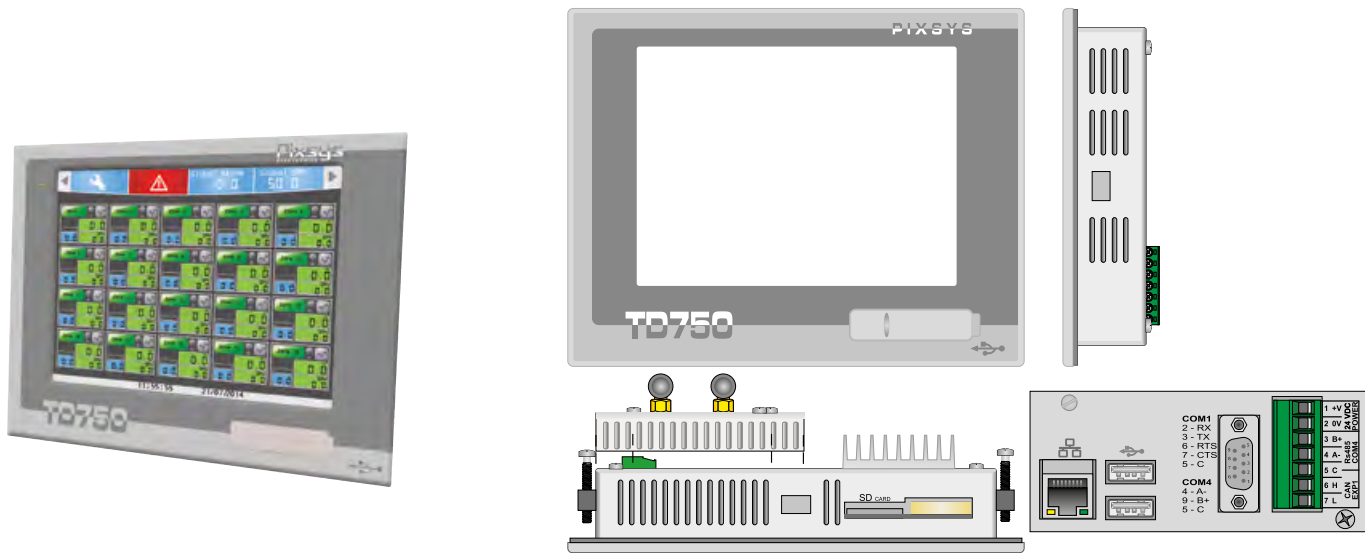
Processor	ARM V4i 200 MHz
Memory	Flash 256 MB
Serial communication	RS232-RS485 (1200..115200 Baud) galvanically isolated
Field bus	CAN (70K..1Mbit) galvanically isolated
USB	1 USB 2.0 on frontal + 1 USB 2.0 on back side
Ethernet	1 Ethernet 10/100 Base-T on RJ45 connector
Memory card	SD/MMC Reader

Software features

Operating logic programming	Pixsys suite LogicLab IEC 61131-3 languages
Graphic interface programming	Software Pixsys suite PageLab
Communication protocols	Modbus RTU Master / slave; Free-Port mode for modem protocols or proprietary devices, Modbus TCP/IP
	Master / Slave, CAN Open Master
Clock	Real-Time clock, back-up battery

Ordering codes

TD700-AD	HMI 7" with soft-PLC + 3 serial ports RS232/RS485
ETD884-AD	Expansion module 2 An. 16bit/1ms (load cells) + 8 Inp. + 8 statics + 2 outputs V/mA
ETD880-AD	Expansion module 8 digital inputs + 8 digital outputs + 2 enc. PNP Resolution 24 bit



TD750

Panel PC Touch-screen 7" with Windows 7

Main features and display

Box	204 x 160 (front) x 34mm
Power supply	24 V DC $\pm 10\%$
Power consumption	Approx. 12 W
Display	Display 7" 800x600 24bit LVDS with integrated resistive touchscreen; backlight Led 500cd (lifetime > 50000 h)
Operating conditions	Temperature 5 -50 °C, humidity 10-90 %RH
Frontal panel	6 mm aluminium alloy, milled, opaque
Weight	Approx. 2 Kg
Sealing	IP65 (front panel), IP20 (box and terminal bloks)
Cooling	Fanless
UPS	Integrated, assisted shut-down

Hardware features

CPU	Intel® Atom™ N2800 @ 1,86GHz, 1MB Cache
RAM Memory	2GB DDR3 SDRAM (up to 4GB DDR3)
Hard Disk	SSD Sata 2,5" 24/24h anti shock 16 / 64GB
Ethernet	1 x LAN 10/100 Base-TX Ethernet RJ-45 interface
Serial Interface	1 x RS232, 1 x CAN, 1 x RS485 optoisolated from power supply
USB	1 front + 2 rear USB 2.0 interface
Clock	Real-time clock, back-up battery
Serial ATA	1x Sata-300 mass storage interfaces

Software features

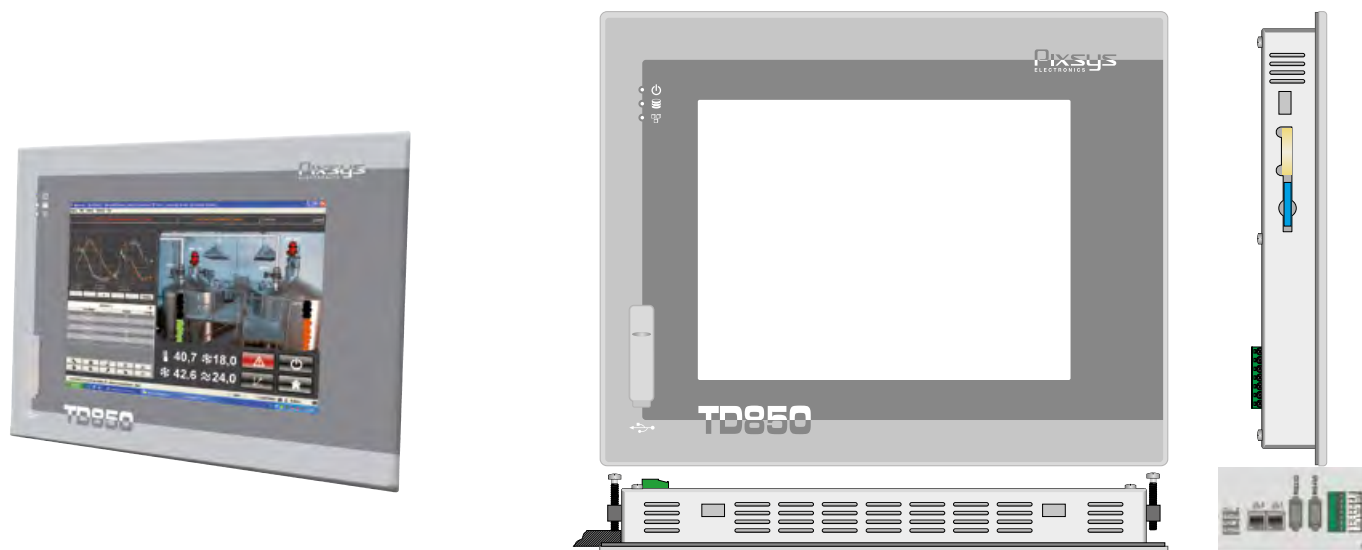
Operating system	Windows® 7 Embedded Premium
Operating logic programming	Pixsys suite LogicLab IEC 61131-3 languages
Graphic interface programming	Software Pixsys suite PageLab
Communication protocols	Modbus RTU Master / slave; Free-Port mode for modem protocols or proprietary devices, Modbus TCP/IP Master / Slave, CAN Open Master

Ordering codes

TD750-AEB-7EP	Panel PC 7" with DOM 16GB
TD750-APC-7EP	Panel PC 7" with DOM 64GB

2400.30.008	Windows® 7 Embedded Premium
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ETDWIF-AD	Optional module Wi-Fi 802.11b,g,n
ETD2RS232-AD	Optional module 2 x UART RS232
ETDLAN1G-AD	Optional module 1 x LAN 10/100/1000T RJ45



TD850-A

Panel PC Touch-screen 10.4"

Main features and display

Box	325 x 260 (front) x 25 mm
Power supply	24 V DC $\pm 10\%$
Power consumption	approx. 14 W / 18 W
Display	Display 10.4" 800x600, integrated resistive touchscreen; backlight Led 320cd (lifetime > 20000 h)
Operating conditions	Temperature 5 -50 °C, humidity 10-90 %RH
Front panel	Aluminium alloy 6mm, milled, opaque
Weight	approx. 3 Kg
Sealing	IP65 (Front) , IP20 (box and terminal blocks)
Cooling	Fanless
UPS	Integrated, assisted shut-down

Hardware data

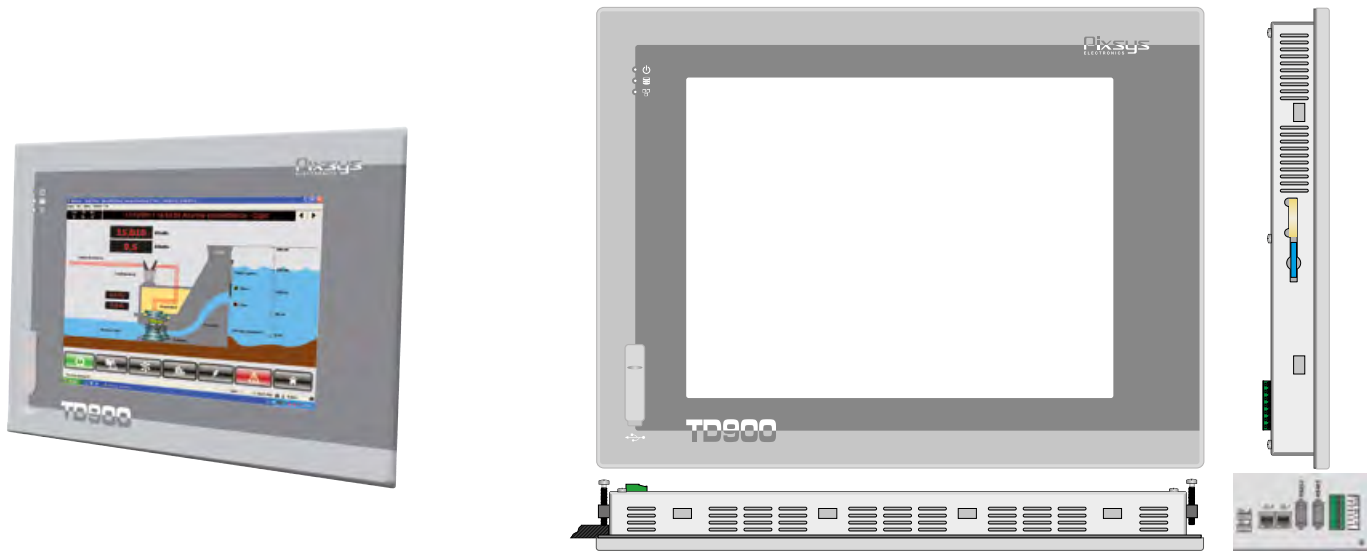
CPU	Intel® Atom™ N2800 @ 1,86GHz, 1MB Cache
RAM Memory	2GB DDR3 SDRAM (up to 4GB DDR3)
Hard Disk	SSD Sata 2,5" 24/24h anti shock 16 / 64GB
Ethernet	2x LAN 10/100 base-TX Ethernet RJ-45 interface
Serial Interface	1x RS232, 1x RS485 Optoisolated from power supply, 1 CAN option with Pixsys expansion module
USB	1 front + 2 USB 2.0 interfaces on rear panel
Clock	Real-time clock including back-up battery
ATA Serial	1x Sata-300 mass storage Interface
Expansion modules	2x Mini-PCI Express, 1x Pixsys expansion connector

Software data

Operating system	Windows® 7 Embedded Premium
Operating logic programming	Pixsys suite LogicLab IEC 61131-3 languages
Graphic interface programming	Software Pixsys suite PageLab
Communication protocols	Modbus RTU Master / slave; Free-Port mode for modem protocols or proprietary devices, Modbus TCP/IP Master / Slave, CAN Open Master

Ordering codes

TD850-A16	Panel PC 10.4", DOM 16GB
TD850-A64	Panel PC 10.4", DOM 64GB
2400.30.008	Windows® 7 Embedded Premium
ETDWIF	Optional module Wi-Fi 802.11b,g,n
ETD2RS232	Optional module 2 x UART RS232
ETDLAN1G	Optional module 1 x LAN 10/100/1000T RJ45



TD900-A

Panel PC Touch-screen 15"

Main features and display

Box	435 x 330 (front) x 29 mm
Power supply	24 V DC $\pm 10\%$
Power consumption	Approx. 14 W / 18 W
Display	15" 1024x768 24bit LVDS, integrated resistive touchscreen; backlight Led 500cd (lifetime > 20000 h)
Operating conditions	Temperature 5 -50 °C, humidity 10-90 %RH
Front panel	Aluminium alloy 6mm, milled, opaque
Weight	Approx. 4 Kg
Sealing	IP65 (Front) , IP20 (box and terminal blocks)
Cooling	Fanless
UPS	Integrated, assisted shut-down

Hardware data

CPU	Intel® Atom™ N2800 @ 1,86GHz, 1MB Cache
RAM Memory	2GB DDR3 SDRAM (up to 4GB DDR3)
Hard Disk	SSD Sata 2,5" 24/24h anti shock 16 / 64GB
Ethernet	2x LAN 10/100 base-TX Ethernet RJ-45 interface
Serial Interface	1x RS232, 1x RS485 optoisolated from power supply, 1 CAN option with Pixsys expansion module
USB	1 front + 2 USB 2.0 interfaces on rear panel
Clock	Real-time clock including back-up battery
ATA Serial	1x Sata-300 mass storage Interface
Expansion modules	2x Mini-PCI Express, 1x Pixsys expansion connector

Software data

Operating system	Windows® 7 Embedded Premium
Operating logic programming	Pixsys suite LogicLab IEC 61131-3 languages
Graphic interface programming	Software Pixsys suite PageLab
Communication protocols	Modbus RTU Master / slave; Free-Port mode for modem protocols or proprietary devices, Modbus TCP/IP Master / Slave, CAN Open Master

Ordering codes

TD900-A16	Panel PC 15", DOM 16GB
TD900-A64	Panel PC 15", DOM 64GB

2400.30.008	Windows® 7 Embedded Premium
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ETDWIF	Optional module Wi-Fi 802.11b,g,n
ETD2RS232	Optional module 2 x UART RS232
ETDLAN1G	Optional module 1 x LAN 10/100/1000T RJ45

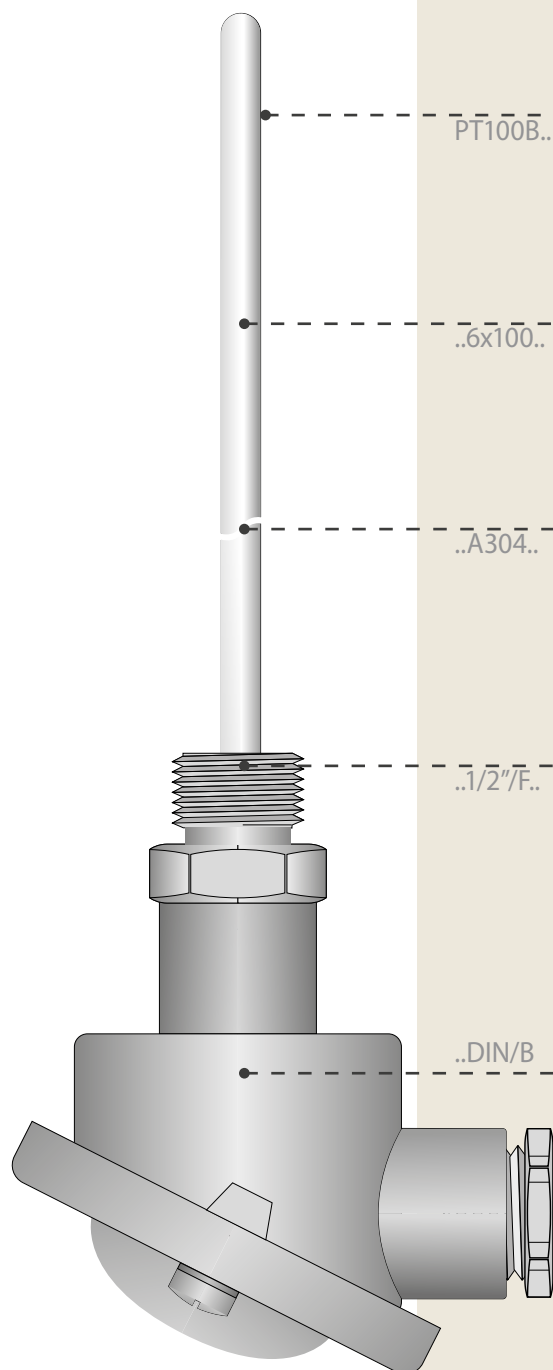


SENSORS AND COMPLEMENTARY FITTINGS

GUIDELINES

for ordering codes

example code: BLI - PT100B - 6x100 - A304 - 1/2"/F - DIN/B



Packaging

BLI	Blister
BOX	Carton

Sensor type

PTC	PT1000	TCS
NTC	Ni100	TCE
PT100A	TCJ	TCR
PT100B	TCK	Other..

Diameter x Length

4x50	6x50	OC/10x5
5x60	6x100	AR/6x100 (air)
6x15	8x150	Other..
8x20	15x400	

Material type

A304	(AISI 304 - 899°C)	OTTN	(brass)
A316	(AISI 316 - 899°C)	KER1	(single ceramic sheath)
I600	(Inconel 1180°C)	KER2	(double ceramic sheath)
MGO	(mineral insulated, AISI 304 sheath)	KER3	(triple ceramic sheath)
		Other..	

Connector / Coupling

0000	(no connector)	M12/F	(M12x1,5 fixed)
MN/INOX	(inox rod)	FLNG/S	(sliding flanges)
1/8"/S	(1/8" Gas sliding)	1/8"÷MBAI	(mini-bayonet)
1/4"/	(sliding)	1/4"÷BAI	(bayonet)
1/2"/F	(F=fixed)	M12"÷BAI	(bayonet)
3/8"/S		M10X1:BAI	(thread 1mm bayonet)
M8/F		Other..	
M10/F			

Head / Cable

0000	(no head)	3,0GSC	(silicon cable temperature -60..200°C)
DIN/A		5,0PVC	(PVC cable temperature 30..80°C)
DIN/B		6,0Tfe	(Teflon cable temperature -60..250°C)
DIN/M	(mini DIN)	BA/CER	(ceramic basement)
Eex-D		Other..	
MCR	(ceramic pin)		
MCR/90	(ceramic pin 90°)		
CNM/M	(mini connector)		
0,5TTS	(fibre glass cable temp. -60..250°C)		

Hot junction (only for TC)

IS	(isolated)	IS(2)	(double isolated)
MS	(grounded)	IS(3)	(triple isolated)
SC	(open)	Other..	

Diameter of wires (only for TC)

0,2	0,51	1,29	3,60
0,25	0,81	1,63	
0,35	1,02	2,30	

PT100 EASY-UP

Class B, 3 wires, GSC / TTS cable



Main features

Stem diameter	6mm
Immersion material	Steel AISI 304
Internal insulation	MgO Magnesium oxide > 20M Ω at 25°C (500 V DC)
Sensor	PT100 class B (+/- 0,3°C at 25°C)
GSC cable	Silicon rubber, operating temperature -40 .. 250°C
CTTS cable	Glass fiber, operating temperature -200 .. 500°C
Sealing	40mm bend proof spring between cable and stem
Response time	6,5s (normative BS 1904/1984/CEI60751)

Ordering codes

2000.90.039	BLI-PT100B-6X50-A304-0000-3 m GSC cable
2000.90.001	BLI-PT100B-6X100-A304-0000-3 m GSC cable
2000.90.153	BLI-PT100B-6X50-A304-0000-3 m TTS cable
2000.90.520	BLI-PT100B-6X80-A304-0000-2 m TTS cable
2000.90.036	BLI-PT100B-6X100-A304-0000-3 m TTS cable
2000.90.521	BLI-PT100B-6X130-A304-0000-2 m TTS cable
2000.90.522	BLI-PT100B-6X230-A304-0000-2 m TTS cable

Sliding junction ordering codes

2000.30.003	Sliding junction $\varnothing$ 6x1/8" GAS
2000.30.006	Sliding junction $\varnothing$ 6x1/4" GAS
2000.30.027	Sliding junction $\varnothing$ 6x1/4" NPT
2000.30.009	Sliding junction $\varnothing$ 6x1/2" GAS

PT100 EASY-UP

Air probes, Class B, 3 wires



Main features

Stem diameter	6mm (special holes on the protective sheath)
Immersion material	Steel AISI 304
Internal insulation	Not present
Sensor	PT100 class B (+/- 0,3°C up to 25°C)
GSC cable	Silicon rubber, operating temperature -40 .. 250°C
CTTS cable	Glass fiber, operating temperature -200 .. 500°C
Sealing	40mm bend proof spring between cable and stem
Response time	0.9s (BS 1904/1984/CEI60751)
Easy-Up code	2301

Ordering codes

2000.90.091	BLI-PT100B-AR/6X100-A304-0000-3 m GSC cable
2000.90.395	BLI-PT100B-AR/6X100-A304-0000-3 m TTS cable

Sliding junction ordering codes

2000.30.003	Sliding junction $\varnothing$ 6x1/8" GAS
2000.30.006	Sliding junction $\varnothing$ 6x1/4" GAS
2000.30.027	Sliding junction $\varnothing$ 6x1/4" NPT
2000.30.009	Sliding junction $\varnothing$ 6x1/2" GAS

PT1000 EASY-UP

GSC / TTS cable, PVC Thermoplastic sealing
IP65 / IP67



Main features

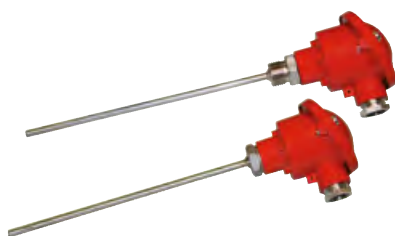
Stem diameter	4-5-6mm
Immersion material	Steel AISI 304 / Thermoplastic rubber
Sensor	PT1000B 0,12% 1000 Ohm up to 0°C
Response time	15s
Strength	2000 V AC with resin
Insulation	20 M Ω 500 V DC
TTS cable	Glass fiber, operating temperature -200 .. 500°C
GSC cable	Silicon rubber, operating temperature -40 .. 250°C
GOT cable	Thermoplastic rubber -30 .. +105°C
Sealing	IP44 with cable TTS / IP67 with resin

Ordering codes

2000.90.232	BLI-PT1000B-4X40-A304-0000-2 m GSC cable
2000.90.233	BLI-PT1000B-5X20-COST-0000-2 m GPT cable
2000.90.234	BLI-PT1000B-6X50-A304-0000-2 m TTS cable

PT100 EASY-UP

Class B, DIN-B head



Main features

Stem diameter	6mm
Immersion material	Steel AISI 304 or 316
Internal insulation	MgO Magnesium oxide > 20mOhm at 25°C (500 V DC)
Sensor	PT100 class B (+/- 0,3°C up to 25°C)
Response time	6,5s (BS 1904/1984/CEI60751)
Head	DIN/B aluminium alloy, red epoxidic painting
Sealing	IP66
Operating temperature	-100..+500°C

Ordering codes

2000.90.530	BOX-PT100B-6X30-MGO-1/4"/F-DIN/B
2000.90.515	BOX-PT100B-6X100-MGO-0000-DIN/B
2000.95.515	BOX-PT100B-6X100-MGO-0000-DIN/B with thermowell
2000.90.516	BOX-PT100B-6X200-MGO-0000-DIN/B
2000.95.516	BOX-PT100B-6X200-MGO-0000-DIN/B with thermowell
2000.90.517	BOX-PT100B-6X300-MGO-0000-DIN/B
2000.95.517	BOX-PT100B-6X300-MGO-0000-DIN/B with thermowell
2000.90.518	BOX-PT100B-6X400-MGO-0000-DIN/B
2000.95.518	BOX-PT100B-6X400-MGO-0000-DIN/B with thermowell

Sliding junction ordering codes

2000.30.003	Sliding junction $\varnothing$ 6x1/8" GAS
2000.30.006	Sliding junction $\varnothing$ 6x1/4" GAS
2000.30.027	Sliding junction $\varnothing$ 6x1/4" NPT
2000.30.009	Sliding junction $\varnothing$ 6x1/2" GAS

TCJ EASY-UP

GSC / TTS cable



Main features

Sheath diameter	6mm
Immersion material	Steel AISI 304
Internal insulation	MgO Magnesium oxide > 20 MΩ at 25°C (500 V DC)
Sensor	Thermocouple J (Fe-CuNi / iron-constantan), Wire 1,02mm, insulated junction
GSC cable	Silicon rubber, operating temperature -40 .. 250°C
TTS cable	Glass fiber, operating temperature -200 .. 500°C
Sealing	40mm bend proof spring between cable and stem
Response time	3,9s (BS 1904/1984/CEI60751)
Operating range	-200..+400°C
Easy-Up code	2301

Ordering codes

2000.90.523	BLI-TCJ-6X80-A304-0000-2 m TTS cable
2000.90.524	BLI-TCJ-6X130-A304-0000-2 m TTS cable
2000.90.525	BLI-TCJ-6X230-A304-0000-2 m TTS cable
Sliding junction ordering codes	
2000.30.003	Sliding junction Ø 6x1/8" GAS
2000.30.006	Sliding junction Ø 6x1/4" GAS
2000.30.027	Sliding junction Ø 6x1/4" NPT
2000.30.009	Sliding junction Ø 6x1/2" GAS

TCJ EASY-UP

Washer, GSC / TTS cable



Main features

Sheath diameter	Washer ext. Ø 10mm / Hole Ø 5 mm
Contact material	Stagnated copper
Sensor	Thermocouple J (Fe-CuNi / iron-constantan), Wire 0,25mm, grounded hot junction
TTS cable	Glass fiber, operating temperature -200 .. 500°C
Response time	4,5s (BS 1904/1984/CEI60751)
Operating range	-200..+400°C
Easy-Up code	2301

Ordering codes

2000.90.077	BLI-TCJ-OC/5x10-COPPER-1,5 TTS cable-IS-0,25
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TCK EASY-UP

GSC / TTS cable



Main features

Sheath diameter	6mm
Immersion material	Steel AISI 304 / AISI 316 / Inconel 600
Internal insulation	MgO Magnesium oxide > 20 MΩ @ 25°C (500 V DC)
Sensor	Thermocouple K (NiCr-NiAl / Cromel-Alumen), Wire 1,02mm, insulated junction
GSC cable	Silicon rubber, operating temperature -40 .. 250°C
TTS cable	Glass fiber, operating temperature -200 .. 500°C
Sealing	40mm bend proof spring between cable and stem
Response time	1,9s (BS 1904/1984/CEI60751)
Operating range	A316 -100..+600°C / I600 -100..+800°C
Easy-Up code	Code 2352 (-100..+600°C - A316), Code2351 (-100..+800°C - I600)

Ordering codes

2000.90.537	BLI-TCK-6X100-A316-0000-3 m TTS cable
2000.90.068	BLI-TCK-6X100-I600-0000-3 m TTS cable
2000.90.538	BLI-TCK-6X200-A316-0000-5 m TTS cable
2000.90.025	BLI-TCK-6X200-I600-0000-5 m TTS cable

Sliding junction ordering codes

2000.30.003	Sliding junction Ø 6x1/8" GAS
2000.30.006	Sliding junction Ø 6x1/4" GAS
2000.30.027	Sliding junction Ø 6x1/4" NPT
2000.30.009	Sliding junction Ø 6x1/2" GAS

TC-K ALUMINA

DIN-B head, Alumina sheath up 1280°C



Main features

Stem diameter	15mm
Immersion material	Alumina 610 max 1500°C + Coupling steel AISI 316
Internal insulation	Ceramic insulator
Sensor	Thermocouple K (NiCr-Ni), Wire Ø3.20mm, Insulated junction
Response time	120s
Head	DIN/B aluminium alloy, epoxodic painting
Sealing	IP66
Operating temperature	0°..+1250°C

Ordering codes

2000.00.083	TCK-15x250-KER1-MN/INOX-DIN/B-IS2,30
2000.00.015	TCK-15x300-KER1-MN/INOX-DIN/B-IS2,30
2000.00.008	TCK-15x400-KER1-MN/INOX-DIN/B-IS2,30
2000.00.009	TCK-15x500-KER1-MN/INOX-DIN/B-IS2,30
2000.00.056	TCK-15x600-KER1-MN/INOX-DIN/B-IS2,30

PTC1K / EASY-UP

KTY82-121, GSC / PVC cable



Main features

Stem diameter	6mm
Immersion material	Steel AISI 304
Sensor	PTC KTY 82 - 121 1K 1% Range -55°C ..+150°C
Accuracy	1%
GSC cable	Silicon rubber, operating temperature -40 .. 250°C
PVC cable	PVC -30 .. +105°C
Sealing	IP55 / IP67 with resin
Response time	K (constant)= 10s Water flow speed =2m/s
Strength	2000 V AC with resin
Insulation	20 MΩ 500 V DC

Ordering codes

2000.90.042	BLI-PTC1K-6X30-A304-0000-3 m PVC cable
2000.90.147	BLI-PTC1K-6X30-A304-0000-3 m GSC cable
2000.90.136	BLI-PTC1K-6X40-A304-0000-3 m GSC cable
2000.90.198	BLI-PTC1K-6X40-A304-0000-6 m GSC cable

NTC10K EASY-UP

β3435, Thermoplastic sealing IP65 / IP67



Main features

Stem diameter	6mm
Immersion material	Steel AISI 304 / Thermoplastic rubber
Sensor	NTC10K Range -50°C ..+120°C
Accuracy	+/-1% beta 3435
GSC cable	Silicon rubber, operating temperature -40 .. 250°C
GOT cable	Thermoplastic rubber, -30 .. +105°C
Sealing	IP55 / IP67 with resin
Response time	10" V=2m/s (liquid) K (constant)= 10s Water flow speed =2m/s
Strength	1500 V AC with resin
Insulation	20 MΩ 500 V DC

Ordering codes

2000.90.200	BLI-NTC10K-1%-6X15-COST-0000-1,5 m GOT cable
2000.90.316	BLI-NTC10K-6X50-A304-0000-1,5 m GSC cable

PC21-151-301

Fixed emissivity -20 to 500°C
Optional air / water cooled housing

Main features

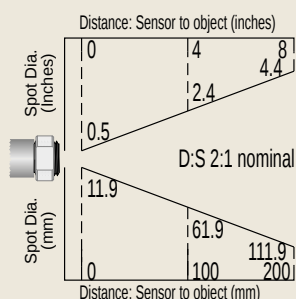
Measuring ranges	Low(L) -20..100°C; Medium(M) 0..250°C; High(H) 0..500°C
Emissivity setting	Fixed at 0,95 (adjustable via controller gain parameter)
Optical resolution	PC21 2:1; PC151 15:1; PC301 30:1
Accuracy	± 1% of reading or ± 1°C whichever greater
Response time	240 ms (90% response)
Spectral range	8 to 14 µm
Power supply	24 V DC (min. 9 V DC max. 28 V DC)
Cable	1 m, two wires plus shield
Operating temperature	0..70°C

Operating temperature

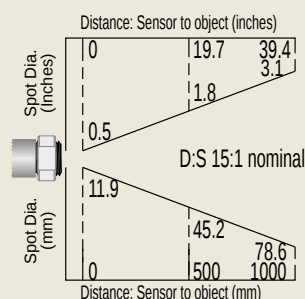
with cooled housing	0..170°C (air cooling); 0..250°C (water cooling)
Material	Stainless Steel AISI316

Ordering codes

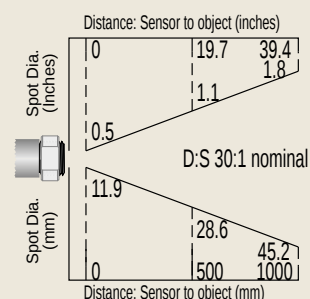
2000.20.018	PC21MT-0 sensor spot 2:1 out 4..20mA/0..250°C
2000.20.019	PC151MT-0 sensor spot 15:1 out 4..20mA/0..250°C
2000.20.022	PC151HT-0 sensor spot 15:1 out 4..20mA/0..500°C
2000.20.024	PC301MT-0 sensor spot 30:1 out 4..20mA/0..250°C
2000.20.021	PC301HT-0 sensor spot 30:1 out 4..20mA/0..500°C
2000.20.023	PC151HT-0 sensor spot 15:1 out 4..20mA/0..500°C with cooled housing
2000.20.025	PC301HT-0 sensor spot 30:1 out 4..20mA/0..500°C with cooled housing
2000.20.012	AIR PURGE COLLAR, accessory for the cleaning of reading optics
2000.20.011	Adjustable mounting bracket - ABS - for PCxxx - PMxxx - PB151



PC21



PC151



PC301

EXTEMP

Atex IR sensor

Main features

Measuring ranges	LT (-20..100°C), HT (0..500°C)
Emissivity setting	Adjustable via software optional USB adapter (model LCT)
Optical resolution	Ex21 (2:1), Ex151 (15:1), Ex301 (30:1)
Accuracy	± 1% of reading or ± 1°C whichever is greater
Response time	240 ms (90% response)
Spectral response	8 to 14 µm
Power supply	12..24 V DC ± 5%
Cable	5 m, two wires plus shield
Operating temperature	0..70°C
Material	Stainless Steel AISI316

Ordering codes

2000.20.049	Ex301-LT-C-5 Sensor Spot 30:1 Out 4..20mA / -20..100°C
2000.20.050	Ex301-HT-C-5 Sensor Spot 30:1 Out 4..20mA / 0..500°C



PB151

Modbus IR sensor

Main features

Measuring ranges	- 20..500°C
Emissivity setting	Adjustable via Modbus
Optical resolution	15:1;
Accuracy	± 1% of reading or ± 1°C whichever is greater
Response time	240 ms (90% response)
Spectral response	8 to 14 µm
Power supply	6 - 13 V DC
Cable	1 m, RS485 4 wires plus shield
Operating temperature	0..70°C
Material	Stainless Steel AISI304

Outputs

Communication port	RS485, Modbus RTU / Slave
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Ordering codes

2000.20.031	PB151 sensor spot 15:1 RS485 Modbus-RTU
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PYROMINI

Miniature sensing head optional Touch-screen / Datalogging

Main features

Measuring ranges	(L) -20..100°C; (M) 0..250°C; (H) 0..500°C, CT configurable up 1000°C
Emissivity setting	Adjustable via rotary switch or touch-screen
Optical resolution	2:1 - 15:1 - 30:1
Accuracy	+/- 1% of reading or +/- 1°C whichever greater
Response time	240 ms (90% response)
Spectral range	8 to 14 µm
Power supply	24 V DC +/- 5%
Cable	1 m, two wires plus display
Operating temperature	0..60°C, optional sensing head up to 180°C (no cooling required)
Output	4..20mA or RS485
Touchscreen (optional)	2.83", resistive TFT, 320x240 pixel
Datalogging	Configuration of sensor, temperature visualization, graph view Optional via touchscreen, slot for MicroSD Card 2Gb (not included) 28.4 million readings, .CSV format

Ordering codes

2000.20.036	PM-MA-151-CT-CRT spot 15:1 out 4..20mA / -40..1000°C Touchscreen
2000.20.037	PM-MA-151-HT-CB spot 15:1 out 4..20mA / 0..500°C
2000.20.038	PM-MA-151-XT-CB spot 15:1 out 4..20mA / 0..1000°C
2000.20.039	PM-MA-301-HT-CB spot 30:1 out 4..20mA / 0..500°C
2000.20.040	PM-MA-301-XT-CB spot 30:1 out 4..20mA / 0..1000°C



DST SENSOR

Main features

Dimension	71 x 40
Power supply	12..40 V DC
Connection	M12 4 pole
Operating conditions	Temperature -40..+85 °
Material	PBT, grey
Protection	IP65
Analogue output	4..20 mA current loop HART (2 wire)
Digital output	2 x PNP 30 V DC 200 mA

RTD Temperature

Sensor	RTD (PT100), Tc-K
Range	-50..200°C
Probe dimension	6x100, 6x200
Probe connector	1/2" Gas
Display	4-digit, adjustable via 3 key

Ordering code

DST100-C6100M5	Range -50...200°C - 6x100 1/2" Gas - OUT 4...20mA HART + DISPLAY
DST100-C6200M5	Range -50...200°C - 6x200 1/2" Gas - OUT 4...20mA HART + DISPLAY

IR Temperature

Sensor	IR sensor
Range	-40..1000 °C
Probe connector	1/2" Gas
Display	4-digit, adjustable via 3 key

Ordering code

DST200-HTM8	Range -40...1000°C -1/2" Gas - OUT 4...20mA HART + DISPLAY
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Pressure

Sensor	relative pressure
Range	0..10 Bar
Probe connector	1/2" Gas
Display	4-digit, adjustable via 3 key

Ordering code

DST400-01.6UF5	Range 0...1,6 Bar -1/2" Gas - OUT 4...20mA HART + DISPLAY
DST400-10MS5	Range 0...10 Bar -1/2" Gas - OUT 4...20mA HART + DISPLAY

Level

Sensor	Level
Range	0...700mm
Probe connector	1/2" Gas
Display	4-digit, adjustable via 3 key

Ordering code

DST800-700U5	Range 0...700 mm -1/2" Gas - OUT 4...20mA HART + DISPLAY
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HART-Programmer

Ordering code

DST-HART	USB HART-Programmer
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ECT

Low range up to 600mBar



Main features

Sensor	Thick film on ceramic (Al ₂ O ₃)
Output	4..20 mA
Power supply	9..30 V DC 2 wires connection
Process temperature	-25..+85°C
Accuracy at 25°C	+/- 0,5% on full scale (typ.)
Electrical connection	DIN43650-A
Process connection	1/4" G
Housing	AISI316L
EMC emissivity	EN/IEC 61000-6-3/2
Sealing	IP65

Ordering codes

2000.40.088	ECT0.1A range 0..100 mBar, Ceramic
2000.40.089	ECT0.2A range 0..200 mBar, Ceramic
2000.40.090	ECT0.4A range 0..400 mBar, Ceramic
2000.40.091	ECT0.6A range 0..600 mBar, Ceramic

ECT / NAT

Range -1..1000Bar



Main features

Sensor	Thick film on ceramic (Al ₂ O ₃)
Output	4..20 mA (options at 0..10 V)
Power supply	9..30 V DC 2 wires connection
Operating temperature	-25..+85°C
Accuracy at 25°C	+/- 0,3% on full scale (typ.)
Electrical connection	DIN43650-A
Process connection	1/4" G
Housing material	AISI316L
EMC emissivity	EN/IEC 61000-6-3/2
Sealing	IP65

Ordering codes

2000.40.100	ECT1.0A range 0..1 Bar; 4..20mA
2000.40.101	ECT2.5 range 0..2,5 Bar; 4..20mA
2000.40.103	ECT6.0A range 0..6 Bar; 4..20mA
2000.40.104	ECT10.0A range 0..10 Bar; 4..20mA
2000.40.105	ECT16.0A range 0..16 Bar; 4..20mA
2000.40.106	ECT25.0A range 0..25 Bar; 4..20mA
2000.40.107	ECT40.0A range 0..40 Bar; 4..20mA
2000.40.108	ECT100.0A range 0..100 Bar; 4..20mA
2000.40.119	ECT-1.3A range -1..3 Bar; 4..20mA
2000.40.122	ECT-1.0A range -1..0 Bar; 4..20mA
2000.40.033	NAT400.0A range 0..400 Bar ; Out. 4..20mA
Available ranges (NAT)	2,5 to 1000 Bar

FL-ME

Flush membrane transmitter



Main features

Sensor	Thin film on steel
Output	4..20 mA
Supply	2 wires 24 V DC (9..32 V DC)
Media temperature	-40..+125°C
Accuracy @ 25°C	+/- 0,3% F.S. typ., Long term stability 1 year = +/-0,2% F.S. typ.
Electrical connector	DIN43650-A (EN175301-803A)
Pressure connection	1/2" G male, flush membrane
Housing	AISI316L
Sealing	IP65
Measuring range	0..0,2Bar ; 0..100Bar

Ordering codes

2000.40.138	FPT1.0A 0..1 Bar Flush membrane
2000.40.139	FPT4.0A 0..4 Bar Flush membrane
2000.40.140	FPT6.0A 0..6 Bar Flush membrane
2000.40.141	FPT10.0A 0..10 Bar Flush membrane
2000.40.144	FPT25.0A 0..25 Bar Flush membrane
2000.40.143	FPT100.0A 0..100 Bar Flush membrane

ECL

Submersible pressure transmitter



Main features

Sensor	Ceramic film
Output	4..20 mA (reverse polarity and short circuit protected)
Power supply	9..30 V DC, 2 Wires connection
Operating temperature	-25..+80°C
Accuracy at 25°C	± 0,3% on full scale
Range	From 0..0,1 Bar to 0..25 Bar
Sealing	IP68
Housing material	AISI 316 L - DIN 1.4435
Immunity	EN61000-4-2/-3/-4/-5/-6, Naval certification GL
Weight	Approx. 200 g

Ordering codes

2000.40.149	ECL-Sens. Press. Immergible 0..200 mBar 2mt Cable 10m, OUT 4..20 mA
2000.40.150	ECL-Sens. Press. Immergible 0..400 mBar 4mt Cable 10m, OUT 4..20 mA
2000.40.151	ECL-Sens. Press. Immergible 0..500 mBar 5mt Cable 10m, OUT 4..20 mA
2000.40.152	ECL-Sens. Press. Immergible 0..600 mBar 6mt Cable 10m, OUT 4..20 mA

STATIC LOAD CELLS

Main features

Nominal sensitivity to the F.S.	2mV/V +/-0.1%
Temp. influence on the zero	0.005% / C°
Temperature influence on F.S.	0.003% / C°
Compensated temp. field	-10°C / 50°C
Nominal power-supply tension	5 V (15 V max)
Nominal resistance	350 Ω (+/-3) per 5000.41/42/44 - 700 Ω (+/-5 Ω)
Max static load	150%

Technical data

Nominal load Creep after 4 hours	0.015%..0.05%
Insulate resistance	> 5 GΩ (5000.41/42) > 10 GΩ (5000.43/44)
Load rated deflection	0.3mm ... 0.5mm (5000.41/42/43/44)

Ordering codes series Off-Center Load Cells P250

5000.41.001	OFF-CENTER Load cell 3Kg x P250x350
5000.41.008	OFF-CENTER Load cell 50Kg x P250x350

Ordering codes series Off-Center Load Cells P400

5000.42.004	OFF-CENTER Load cell 30Kg x P400x400
5000.42.005	OFF-CENTER Load cell 50Kg x P400x400
5000.42.006	OFF-CENTER Load cell 100Kg x P400x400

Ordering codes series Compression Load Cells

5000.43.002	Compression Load cell 500Kg
5000.43.005	Compression Load cell 5000Kg

Ordering codes series Tension Load Cells

5000.44.002	Tension Load cell 200Kg
5000.44.005	Tension Load cell 1000Kg

DYNAMIC LOAD CELLS

Main features

Nominal charge	200Kg F. S.
Nominal sensitivity to the F.S.	2 mV / V
Nominal power-supply tension	10 V DC
Nominal resistance	350 Ω
Output cable	PUR 4 wires + shielded 2 mt

Technical details

Total error	< +/- 0,2% F.S.
Tolerance on sensitivity	< +/- 0,1% F.S.
Zero unbalancement	< +/- 0,5% F.S.
Temperature influence at 0°C	< 0,01% F.S. / °C
Temperature influence on F.S.	< 0,02% F.S. / °C
Insulation resistance	> 10 GΩ
Compensated temperature field	-10...+40°C
Max. applicable load	150% F.S.
Max. lateral load	100% F.S.

Ordering codes

5000.00.030	ULC2 cell unit - 200Kg F.S. accuracy 0,2%
5000.00.031	Clamp support for oscillating bearing 22205
5000.00.032 *	Adapter flange - for quick fixing and regulation
5000.00.033	Adapter plate M40x1,5mm centring 50mm
5000.00.034	Rear cover centring / balancing 50mm
	* Requiring also code 5000.00.034

DYNISCO MELT

Pressure transmitters for plastic materials Echo

Main features

Input excitation	mV/V: 10 V DC recommended, 12 V DC max V DC: 16-30 V DC mA: 14-30 V DC
Analogue output	3.33mV/V, 0-10 V DC, or 4-20mA
Accuracy	±0.5% F.S.
Pressure ranges (psi)	1.5M, 3M, 5M, 7.5M or 10M
Pressure units	PSI, Bar, Kg/cm ² , or MPa
Diaphragm temperature	662° F (350°C) for Rigid - 752° F (400°C) for Flex
Process connection	1/2-20 UNF thread (45° conical seal) M14, M22

Temperature sensor

(optional)	J or K-type thermocouple with 3 inch flex, PT100 RTD
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Ordering codes

2000.45.027	ECHO-MV3-PSI-R21-UNF-6PN-S06-F18-NTR
2000.45.021	ECHO-MV3-PSI-R22-UNF-6PN-S06-F18-NTR
2000.45.028	ECHO-MV3-PSI-R23-UNF-6PN-S06-F18-TCJ
2000.45.029	ECHO-MA4-PSI-R21-UNF-6PN-S06-F18-NTR
2000.45.030	ECHO-MA4-PSI-R22-UNF-6PN-S06-F18-NTR
2000.45.031	ECHO-MA4-PSI-R23-UNF-6PN-S06-F18-TCJ

PTx | MDx | SPX

Main features

Input excitation	mV/V: 10 V DC recommended, 12 V DC max V DC: 16-30 V DC mA: 14-30 V DC
Analogue output	3.33mV/V, 0-10 V DC, 4-20mA, 1-11 V DC or 2-10 V DC
Accuracy	±0.5% F.S.
Pressure ranges (psi)	1.5M, 3M, 5M, 7.5M, 10M, 15M or 20M
Pressure units	PSI, Bar, Kg/cm ² , or MPa
Diaphragm temperature	752° F (400°C) optional 530°C
Process connection	1/2-20 UNF thread (45° conical seal) M18

Temperature sensor

(optional)	J or K-type thermocouple with 3 inch flex, PT100 RTD
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Ordering codes

2000.45.023	TPT463E-15M-6/18
2000.45.032	PT462E-15M-6/18

Vertex

Main features

Input excitation	mV/V: 6-12 V DC; mA: 16-36 V DC
Analogue output	3.33mV/V or 4-20mA
Accuracy	±0.25% F.S.
Pressure ranges (psi)	1.5M, 3M, 5M, 7.5M or 10M
Pressure units	PSI, Bar, Kg/cm ² , MPa, KPa
Diaphragm temperature	660°F (350°C), max
Process connection	1/2-20 UNF (with 45° conical seat)

Temperature sensor

(optional)	J-type thermocouple
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Ordering codes

2000.45.033	VERT-MV3-MM1-NDC-PSI-R21-UNF-6PN-S06-F18-NTR
2000.45.034	VERT-MV3-MM1-NDC-PSI-R22-UNF-6PN-S06-F18-NTR
2000.45.035	VERT-MV3-MM1-NDC-PSI-R23-UNF-6PN-S06-F18-TCJ
2000.45.036	VERT-MA4-MM1-NDC-PSI-R21-UNF-6PN-S06-F18-NTR
2000.45.037	VERT-MA4-MM1-NDC-PSI-R22-UNF-6PN-S06-F18-NTR
2000.45.038	VERT-MA4-MM1-NDC-PSI-R23-UNF-6PN-S06-F18-TCJ



RH96

Hum./Temp.transmitters OEM applications



Main features

Size	Stem 126mm x 20mm
Power supply	12..30 V DC
Power consumption	3,5 mA max on version 0..10 V
Operating temperature	-10°C .. +60°C
Working range	6..100% RH
Accuracy at 25°C	+/- 5% RH (15..90% RH)
Response time	Approx. 15 min
Cable	3 m
EASY-UP (HR+T) code	Code 6600 (for ATR401 and ATR171)
EASY-UP (HR) code	Code 2401 (all controllers)

Outputs

RH	0..10 V, 4..20mA
Temperature	PT100 3 wires

Ordering codes

2000.50.018	RH96-3GA - Sens. RH 4..20mA Metal grid filter
2000.50.019	RH96-3GA - Sens. RH 4..20mA Sintered filter
2000.50.020	RH96-3GA - Sens. RH 0..10 V + PT100 Metal grid filter
2000.50.021	RH96-3GA - Sens. RH 0..10 V + PT100 Sintered filter

EE060

Compact transmitters OEM applications



Main features

Size	Stem 116mm x 12mm (version with output 0..1 V), Stem 159mm x 12mm (version with output 4..20mA)
Power supply	4,5..30 V DC (version with output 0..10 V), 9..28 V DC (version with output 4..20mA)
Power consumption	1,5 mA (typ. on version 0..10 V)
Operating temperature	-40°C .. +60°C
Working range	0..100% RH
Accuracy at 20°C	+/- 3% RH (10..90% RH), +/- 5% RH (<10%..>90% RH)
Response time	3s (typ.)
Cable	2 m
Filter type	Metal grid, Stainless sintered steel, Sintered teflon

EASY-UP code

(HR in 4..20mA)	Code 2401 (all controllers)
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Output

RH	0..1 V, 4..20mA
Temperature	PT100 3 wires

Ordering codes

2000.50.023	EE061-FP6A1K300 Sens. RH 4..20mA + PT100
2000.50.026	EE061-F61K300 Sens. RH 4..20mA
2000.50.035	EE060-HT1xPNEB Sens RH 0..1V

EE210 / EE160

High precision Hum. / Temp. HVAC

Main features

Size	Box 80mm x 80mm Stem 50mm/200mm x 20mm (diameter)
Power supply	15..35 V DC , 15..28 V AC
Power consumption	5 mA max on version 0..10 V
Operating temperature	-40°C .. +60°C
Working range	0..100% RH
Accuracy at 25°C	+/- 2% RH (0..90% RH); +/- 3% RH (90..100% RH)
Response time	< 15s
Mounting	On wall or duct, with connection terminals and cable glands
Filter type	Metal grid, Stainless sintered steel, Sintered teflon
EASY-UP code	Code 2401 (all controllers)

Outputs

RH	0..1 V , 4..20mA, 0..10 V
Temperature	4..20mA, 0..10 V

Ordering codes

2000.50.033	EE210 HT6XPAXBUWTX024M Out RH 4..20mA + Temp. 4..20 mA – wall mounting
2000.50.034	EE210 HT6XPBXBUWTX024M Out RH 4..20mA + Temp. 4..20 mA – duct mounting
2000.50.037	EE210 HT3XPBXBUWTX024M Out RH 0..10 V + Temp. 0..10 V – duct mounting
2000.50.029	EE160-HT6XXPAB-TX0024 - Sens. RH 4..20mA + Temp. 4..20mA, wall mounting
2000.50.030	EE160-HTX3XPAB-1BN1M - Sens. RH + Temp. 4..20mA, Modbus RTU RS485, wall mounting

EE23

Hum. / Temp. Industrial applications

Main features

Box	Box 90mm x 135mm x 66mm, steel stem 200mm x 12mm (diameter)
Power supply	15..35 V DC , 15..28 V AC
Power consumption	110 mA (version 4..20mA), 60 mA (version 0..10 V)
Operating temperature	-40°C .. +120°C (option up to 180°C with EE31 code)
Working range	0..100% RH
Accuracy at 25°C	+/- 1,3% RH (0..90% RH); +/- 2,3% RH (> 90% RH)
Response time	< 15s with metal grid filter and coating on sensor
Mounting	Panel mounting box IP66, stainless steel probe
Filter type	Metal grid, Stainless sintered steel, PTFE
EASY-UP code	(HR 4..20mA) Code 2401 (all controllers)

Outputs

RH	Selection 4..20mA / 0..10 V
Temperature	Selection 4..20mA / 0..10 V
Connection cable	Standard 2 m, option 10 m

Ordering codes

2000.50.010	EE23-FTC3025HC01AB6T12 - Sens. RH+Temp. 2 outputs 0..10V/4..20mA Stainless sintered steel filter
2000.50.014	EE23-FTC6025HC01AB6T12 - Sens. RH+Temp. 2 outputs 0..10V/4..20mA Metal grid filter
2000.50.012	EE23-FTC3025D03HC01AB6T12 - Sens. RH+Temp. 2 outputs 0..10V/4..20mA Stainless sintered steel filter + Display



EE354

Dew point Temp. transmitters OEM applications

Main features

Size	100mm x 54mm x 40mm with process connection 1/2"G
Power supply	10..28 V DC
Consumption at 24 V DC	40 mA typ. on version 4..20mA (140mA during auto-calibration)
Operating temperature	-20..50 °C
Pressure range	0..20 Bar (max)
Accuracy at 20°C	< 2°C (up to -60°C)
Response time	t ₉₀ < 30s
Serial interface	RS485 Modbus RTU
Sensor protection	Stainless steel sintered filter
Electromagnetic compatibility	EN61326-1, EN61326-2-3

Ordering codes

2000.50.039	EE354-T63EA - Dew-point temperature transmitter
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SSR series OKPAC

Resistive loads 25A..125A / 1ph

Main features

Technology	Zero-Crossing with low zero-crossing level, for applications with resistive charge
Control voltage	8..30 V DC to 3,5..30 V DC
Switching voltage	12..280 V AC (25A) to 24..510 V AC (125A)
Signaling Led	Signaling Led on input circuit
Protection	Against short-circuit on output
Sealing	Protection cover IP20 on screw connection
Easy-up code	Code 4400 for the whole range

Ordering codes zero crossing

2200.00.051	SSR 25A / 12-280 V AC / Ctrl 7-30 V DC Led
2200.00.053	SSR 60A / 24-600 V AC / Ctrl 8-30 V DC Led
2200.00.054	SSR 75A / 24-600 V AC / Ctrl 8-30 V DC Led
2200.00.055	SSR 95A / 24-510 V AC / Ctrl 3,5-30 V DC Led
2200.00.056	SSR 125A / 24-510 V AC / Ctrl 3,5-30 V DC Led
2200.00.090	Heatsink for 25A with DIN adapter
2200.00.092	Heatsink for 50A with DIN adapter

Ordering codes NO zero crossing (ATR227 / DRR227)

2200.00.116	SSR 125A / 24-510 V AC / Ctrl 7-30 V DC Led
2200.00.093	Heatsink for 100A with DIN adapter + FAN+TERM./DIN

SSR SERIES SAL/SU/SUL

Zero-crossing, resistive loads 30..75A / 1ph



Main features

Technology	Zero-Cross with low zero-crossing level, for applications with resistive charge
Control voltage	8..30 V DC to 3,5..30 V DC
Output voltage	12..280 V AC (25A) to 24..600 V AC (125A)
Signaling Led	Control status LED
Protection	Against short-circuit on output
Sealing	Protection covers IP20 on screw connection
Easy-up code	Code "4400" for the whole range

Ordering codes series SAL (screw terminals)

2200.00.077	SSR 32A / 24-600 V AC / Ctrl 3,5-32 V DC Led and Heatsink
2200.00.078	SSR 35A / 24-600 V AC / Ctrl 3,5-32 V DC Led
2200.00.079	SSR 50A / 24-600 V AC / Ctrl 3,5-32 V DC Led

Ordering codes series SU / SUL (terminal block for DRR450)

2200.00.085	SSR 30A / 24-400 V AC / Ctrl 3,5-32 V DC Led and Heatsink
2200.00.083	SSR 35A / 24-600 V AC / Ctrl 3,5-32 V DC
2200.00.079	SSR 50A / 24-600 V AC / Ctrl 3,5-32 V DC
2200.00.084	SSR 75A / 24-600 V AC / Ctrl 3,5-32 V DC
2200.00.100	Heatsink for 32A with DIN adapter
2200.00.099	Heatsink for 50A with DIN adapter

Ordering codes NO zero crossing (ATR227 / DRR227)

2200.00.114	SSR 50A / 24-510 V AC / Ctrl 3,5-32 V DC Led and Heatsink
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SSR SERIES SWTA

Phase-angle, resistive / inductive
Ctrl 4..20mA, 32A / 3ph



Main features

Technology	Phase-angle control
Command	4..20mA
Control voltage	200 .. 480 V AC
Signaling led	Signaling Led on input circuit
Protection	Varistor 510V Diameter 14mm
Sealing	IP20
Connection	6 screw terminals for input signal and diagnostics, 6 for load control
EMC Immunity	EN61000-2/3/4/5
EMC Emission	NFEN55011
Weight	2 Kg

Ordering codes

2200.00.082	SSR 32A (3ph) / 200-480 V AC / Ctrl 4..20mA led and heatsink
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SSR series SIT

Zero-crossing, Ctrl 90-240 V AC 50A / 3ph



Main features

Technology	Zero-Cross with low zero-crossing level, for applications with resistive charge
Control voltage	90..240 V AC
Switching voltage	24..520 V AC
Signaling Led	Signaling Led on input circuit
Protection	Against short-circuit on output
Sealing	IP20
Easy-up code	Code "4400" for the whole range
EMC Immunity	EN60947-4-3 (IEC947-4-3) and EN60950/VDE0805 (Reinforced Insulation) UL-cUL
Connection	Screw terminals for input signal and load control
Mounting	DIN rail EN50022

Ordering codes

2200.00.081	SSR 50A (3ph) / 24-520 V AC / Ctrl 90-240 V AC led and heatsink
-------------	---

SSR SERIES SGT

Zero-crossing, Ctrl 8-32 V DC 50A / 3ph



Main features

Technology	Zero-Cross with low zero-crossing level, for applications with resistive charge
Control voltage	8..30 V DC
Switching voltage	24..600 V AC
Signaling led	Signaling Led on input circuit
Protection	Against shor-circuit on output
Sealing	Protection cover IP20 on screw terminals
Easy-up code	Code "4400"
Connection	Screw terminals for input signal and load control
EMC immunity	IEC 1000-4-4 (burst)
Weight	370 gr

Ordering codes

2200.00.073	SSR 50A (3ph) / 24-600 V AC / Ctrl 8,5-32 V DC led
2200.00.093	Heatsink for 100A with DIN adapter + FAN+TERM./DIN
2200.00.094	Heatsink for 50A with DIN adapter

NET200

Serial converter RS232 / RS485 / USB



Main features

Box	71x101 (front panel) x 28 mm
Power supply	12..24 V AC/ V DC $\pm 15\%$ 50/60 Hz or via USB port
Power consumption	2 W
Connection	Terminal blok 10poles - 3,81 instrumentation side - USB-B connector + DB 9 poles PC side
Operating conditions	Temperature 0-45 °C, humidity 35..95 RH%
Material	Polycarbonate self-extinguishing
Weight	Approx. 120 g
Fixing	Din Rail EN50022

Software features

Baud Rate	Automatic selection up to 115000 Baud
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Ordering codes

NET200-1AD	RS232/USB > RS232/RS422/RS485
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NET250

Wireless modem - transmitter + receiver



Main features

Box	101mm x 71mm x 28mm (H)
Power supply	12..24 V AC/ V DC $\pm 15\%$ 50/60 Hz for NET250-1AD / From USB for NET250-2AD
Power consumption	5,5 VA
Galvanic isolation	Between power supply and serial on NET250-1AD
Operating conditions	Temperature 0-45 °C, humidity 35..95 RH%
Material	Polycarbonate V0
Weight	Approx. 120 g
Fixing	Din Rail EN50022

Software features

Baud-Rate	9600, 19200 and 38400 bit/s (8,N,1) dip-switch selectable
Radio channels setting	Possibility to select (1..7) wireless transmission channel through Hyper-Terminal

Ordering codes

NET250-1AD	Antenna > RS485, RS232
NET250-2AD	USB-B > Antenna
4000.00.005	Ground plane antenna 900Mhz bnc
4000.00.003	Whip antenna 900Mhz bnc for control panel
4000.00.004	Adapter sma / bnc female
4000.00.006	Cable extension antenna sma / bnc L=250mm
4000.00.007	Cable extension antenna sma - ma / fe L=250mm

MDR

1ph, Out 24V DC

Main features

Sizes	22,5 x 90 x 100(20W); 40 x 90 x 100 (40-60W)
Control voltage	85..264 V AC
Surcharge protection	105..120% (160%) constant , current limiter
Overtension protection	115..135% , 125..135% according to output tension
Setup	500 ms full charge, 230 V AC
Rise	30 ms full charge, 230 V AC
Hold up Time	50 ms full charge, 230 V AC
Operating temperature	-20..55°C
Standard EMC	EN55022 class B; EN61000-6-2 Level heavy industry
Wirings	3/6 screw terminals

Output

Relay	1 Alarm relay
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Ordering codes

2700.10.008	ALM-MDR-20-24 (20W) Monophase
2700.10.009	ALM-MDR-40-24 (40W) Monophase
2700.10.012	ALM-MDR-60-24 (60W) Monophase

DR

1ph / 3ph, Out 24V DC

Main features

Sizes	55,5x125x100 (75w); 65,5x125x100 (120w)
Control voltage	85..264 V AC; 90..132/180..264 V AC (selection by switch) 1Ph/3Ph
Surcharge protection	105..120% (160%) constant , current limiter
Overtension protection	115..135% , 125..135% according to output tension
Over-temperature protection	Output shut down and restart
DC output correction	+/-10% 24..28 V DC
Operating temperature	-10..55°C / -20..70°C
Standard EMC	EN55022 class B; EN61000-6-2 Level ind. pes.
Wirings	3/4 screw terminals

Ordering codes

2700.10.010	ALM-DR-30-24 (30W) Monophase
2700.10.003	ALM-DR-45-24 (45W) Monophase
2700.10.011	ALM-DR-60-24 (60W) Monophase
2700.10.004	ALM-DR-120-24 (120W) Monophase
2700.10.005	ALM-DRP-240-24 (240W) Monophase
2700.10.006	ALM-DRT-240-24 (240W) Three-phase
2700.10.013	ALM-DRT-480-24 (480W) Three-phase
2700.10.014	ALM-DRT-960-24 (960W) Three-phase

MOTORS



Main features

Box	From size 56 to size 160
Power	From 0,25 KW to 18 KW
Connection	Screw pins
Operating temperature	-40+85 °C, Humidity 30..90 RH%
Material	Diecast aluminium
Pole	From 2 to 16
Fixing	B3 / B5 / B14 (special)

Ordering code table

Power (KW)	Pole	Voltage	Box	Encoder	Encoder Res.	Fan
0,25	2	400	56	N = no	1	N = no
..	..		..	L = Line driver	..	F = inc.
..	..		..	R = Resolver	..	
18	8		160	PB = Profibus	16383	
				PN = Profinet		
				ET = Ethercat		
				SS = SSI		
				SIN = Sincos		

Ex. Ordering code: 10-4-400-56-L-16383-F

ENCODERS

Main features

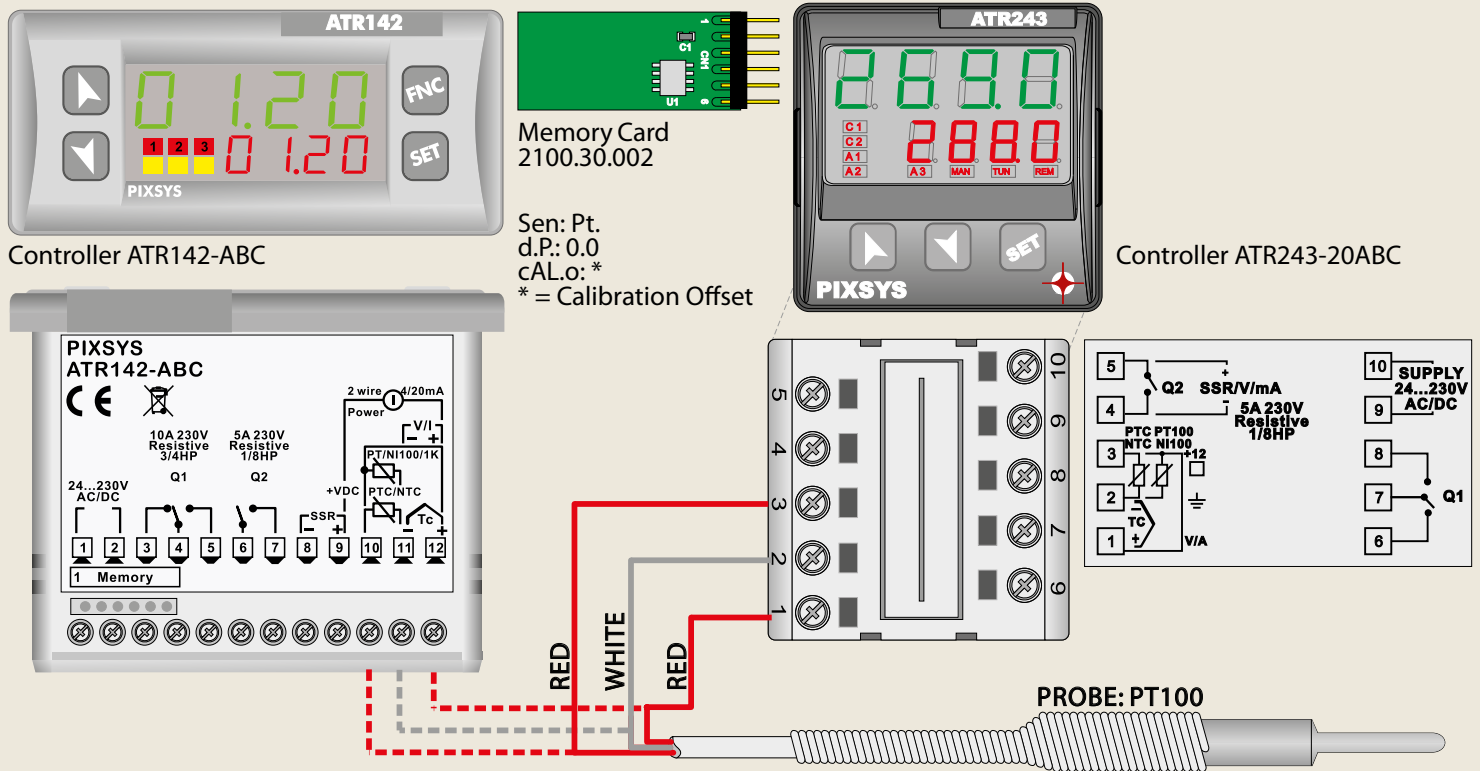
Box	Ø 58 x53 mm or Ø58x79 mm
Power supply	5..30 VDC
Connection	Radial connector M12 or radial/axial connector 10 p (line driver version)
Operating temperature	-20 +70 °C, Humidity 30..90 RH%
Material	Aluminum
Fixing	Front fixing or rear fixing with M5 hole

Ordering codes

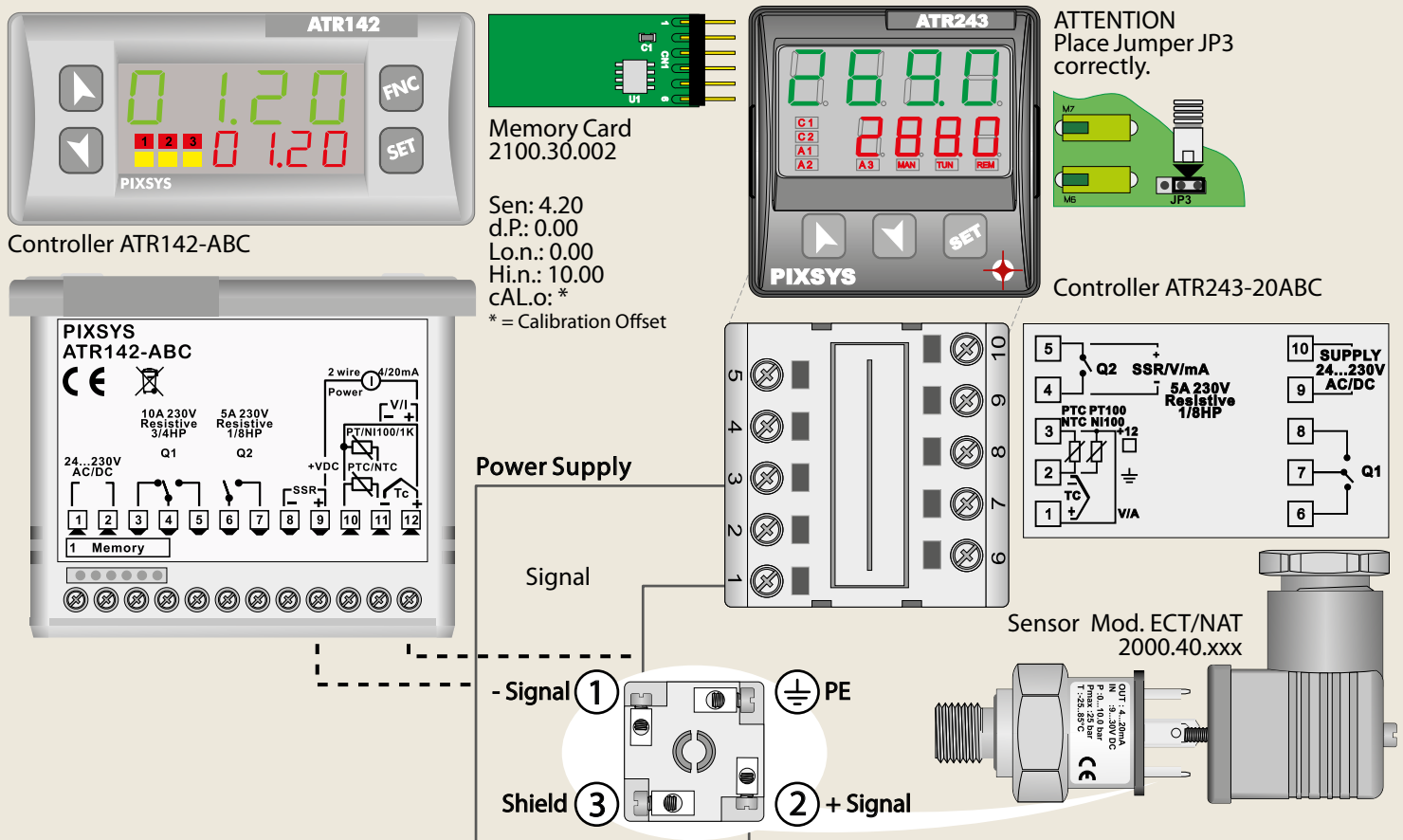
5300.50.001	Encoder 4096 – Push pull – conn. 12 p. radial
5300.50.002	Encoder 4096 – Line driver– conn. MTL 10 p. axial



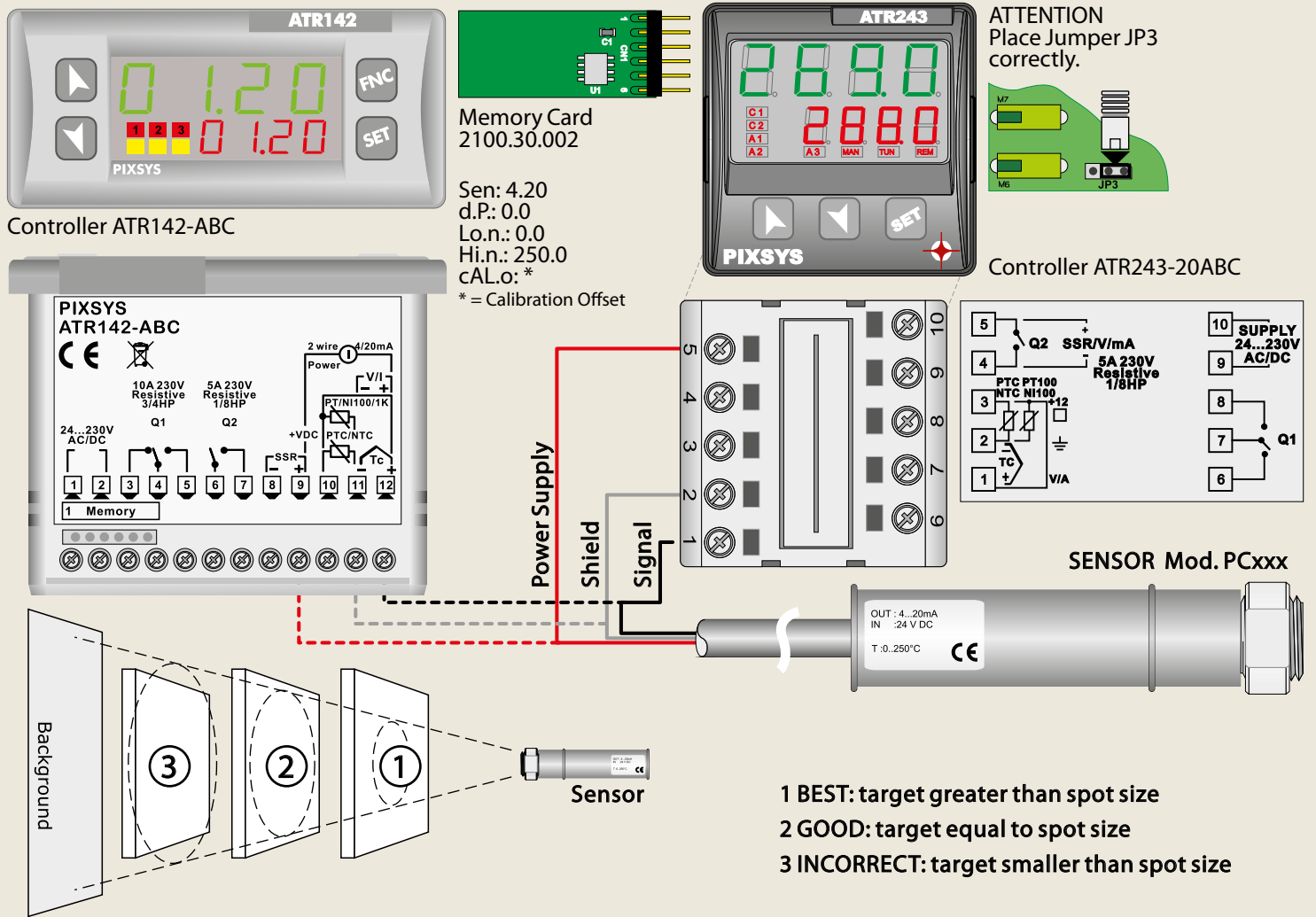
Wiring diagram PT100 RTD Probe connected to controller



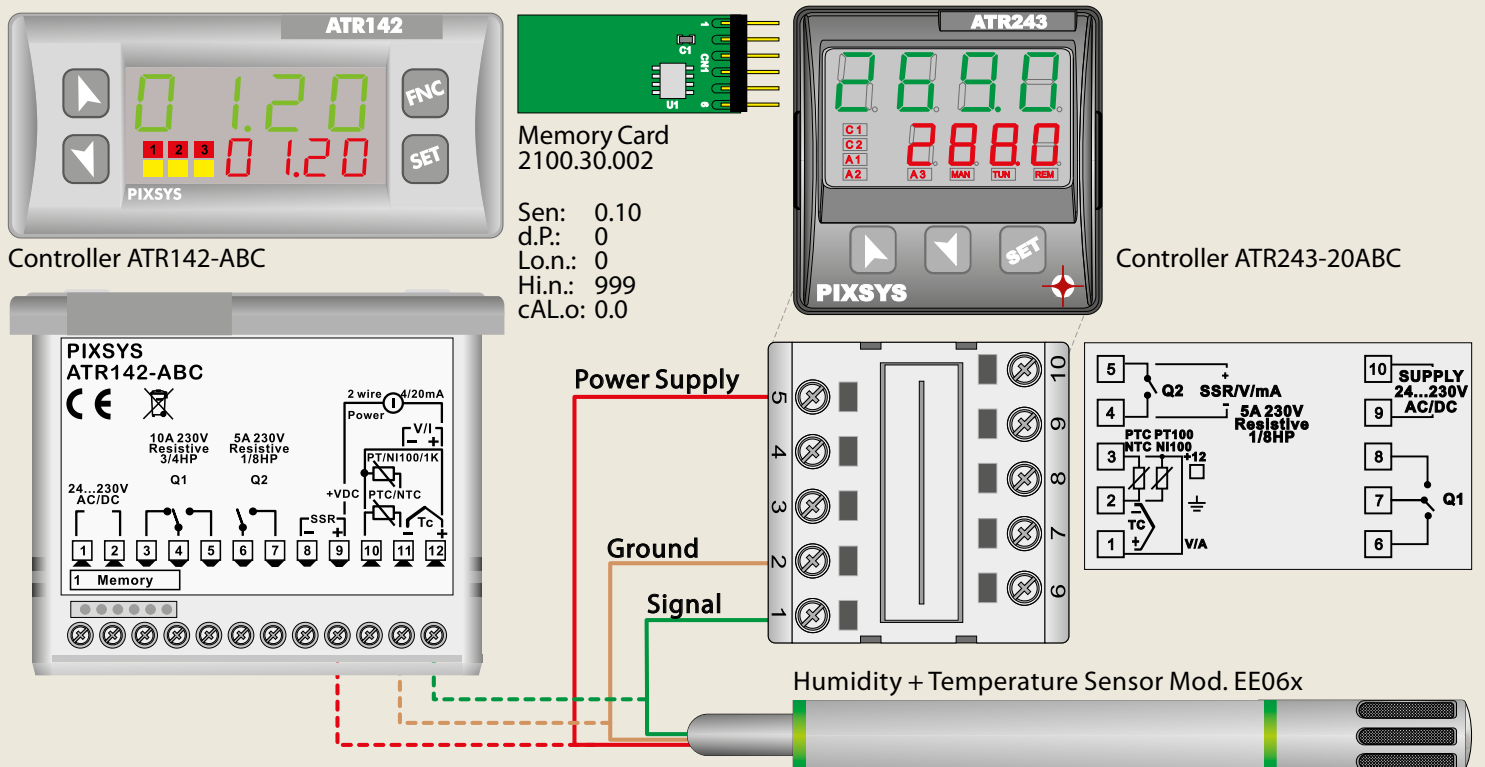
Wiring diagram pressure transducer mod. ECT/NAT connected to controller



Wiring diagram IR-Sensor series PCxxx connected to controller

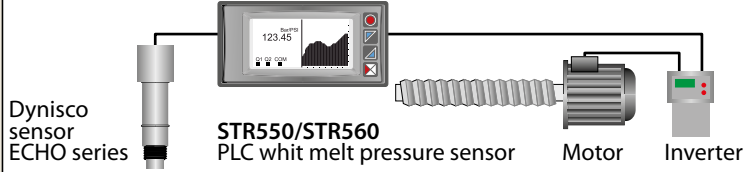


Wiring diagram RH-Sensor series EE06x connected to controller



Technical solutions for plastics injection moulding

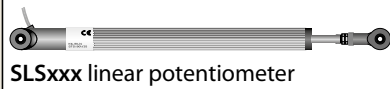
SCREW EXTRUDER CONTROL



PRESS SUPERVISORY SYSTEM



MOLD OPENING



CHILLER CONTROL

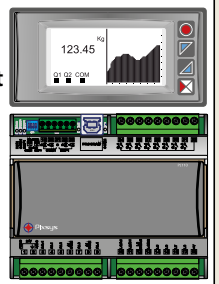


HOPPER LOADER

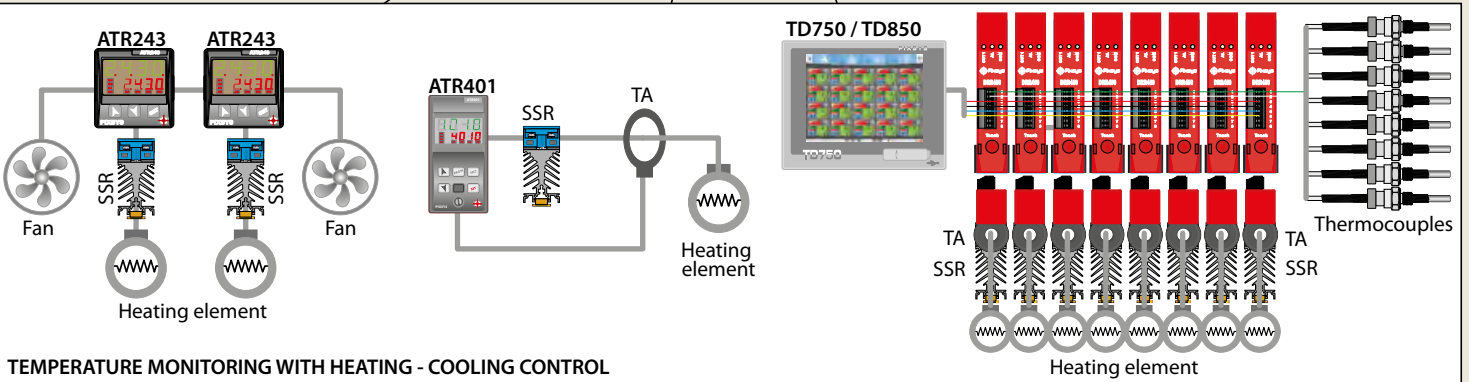
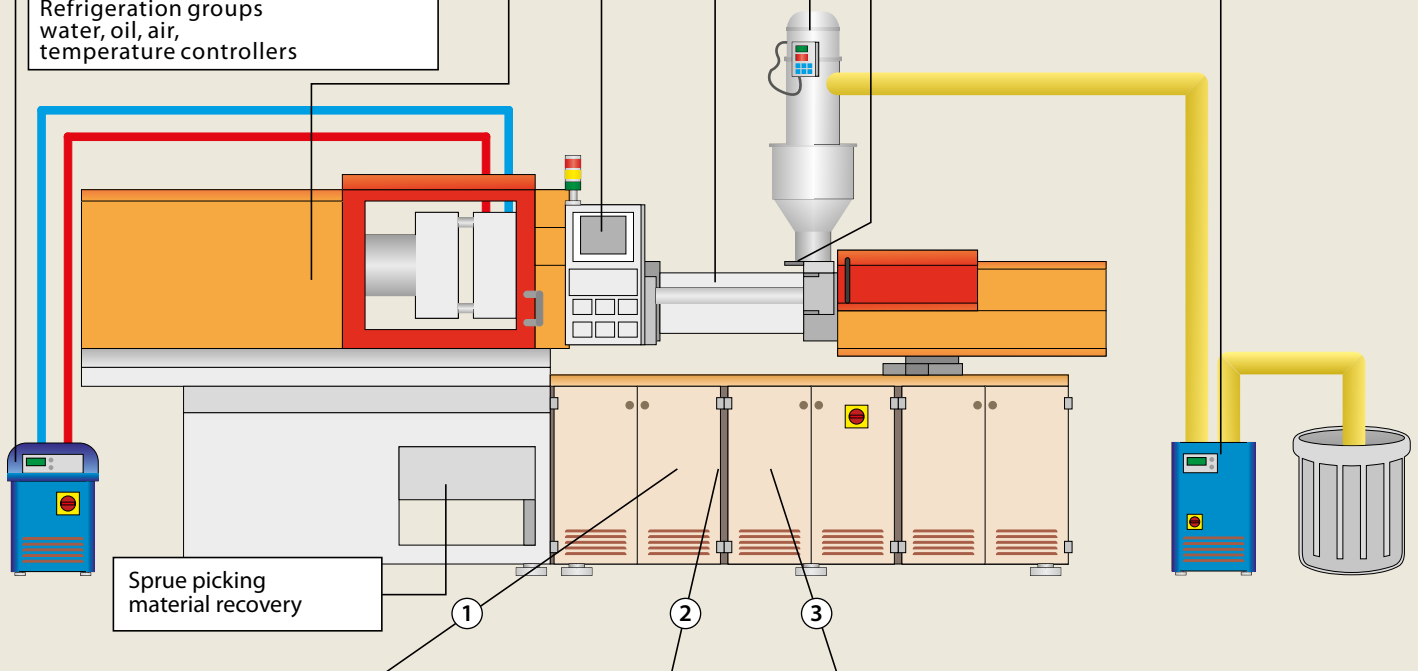


BATCHING STR561 + PL110

PLC management of load cells for batching, suction unloading logic with load cells series DYN



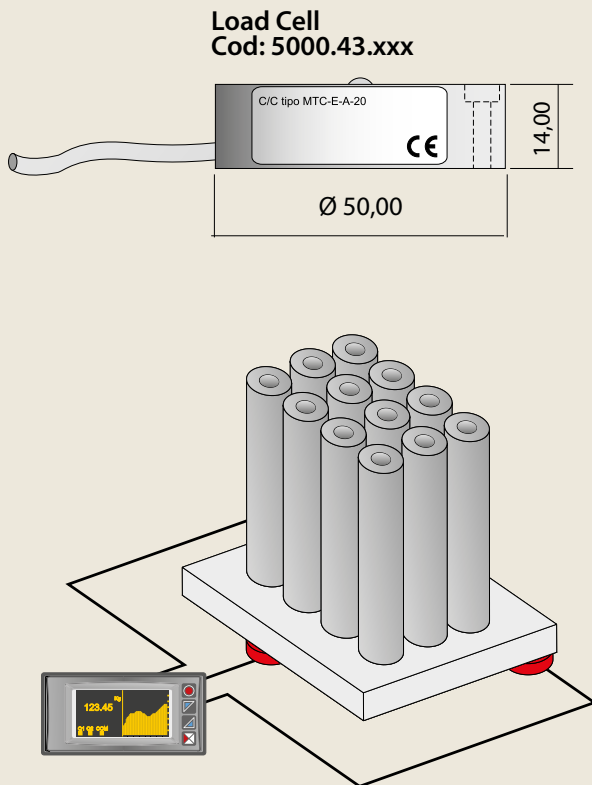
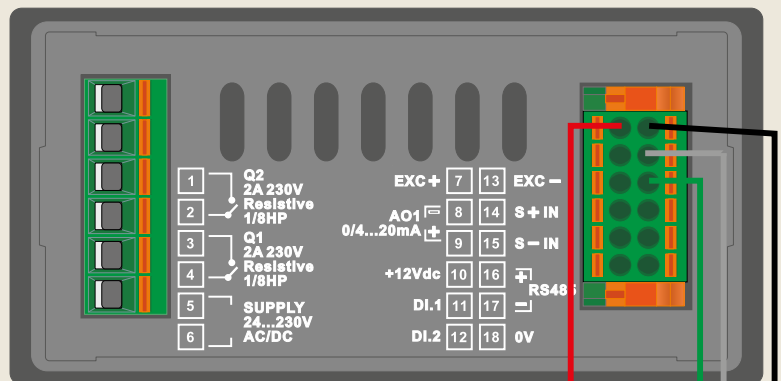
DEHUMIDIFICATION



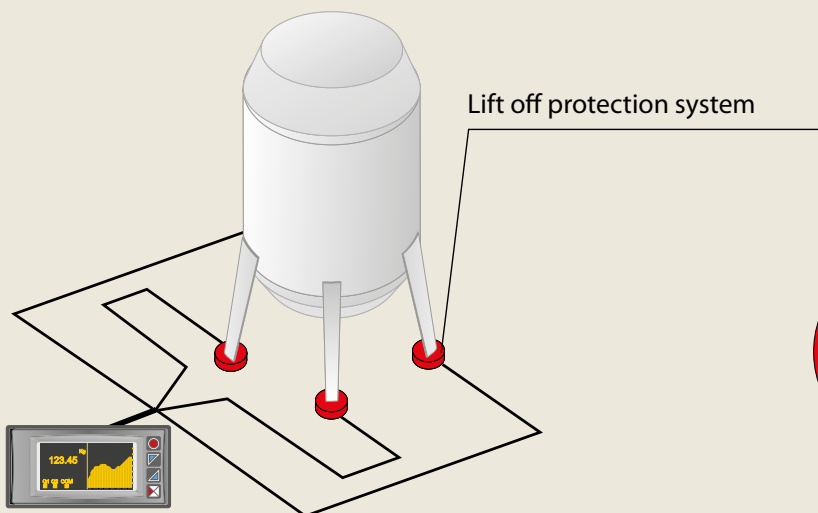
TEMPERATURE MONITORING WITH HEATING - COOLING CONTROL

Weight system with load cells and STR560 / 561

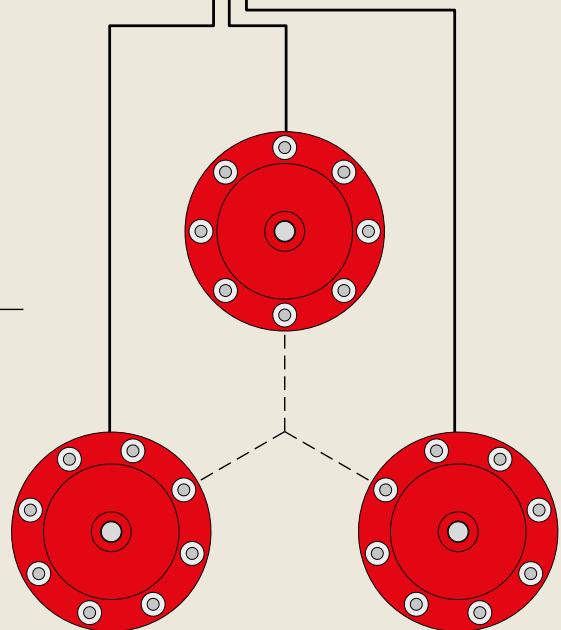
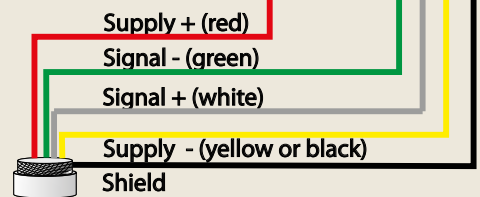
Terminal
STR560-12ABC-T128
STR561-12ABC-T128



3 cells (720 Ω) system with not well-balanced weight



4 cells (720 Ω) system with well-balanced weight



Wiring plan for 3 (720 Ω) well-balanced cells

GENERAL TERMS OF SALE



Placing a purchase order, the Customer implicitly agrees with the Terms of sale listed below and accepts them in full.

ORDERS shall not be binding for Pixsys until the relevant written order confirmation is issued.

PRICES, to be expressed in EUR unless otherwise specified, shall be those of our pricelist in force at the time of order receipt. Prices of customised models or special configurations will be given in the order confirmation, as well as eventual discount options.

Validity of special quotations is usually 30 days and the relevant number must be quoted in the purchase order.

List prices are meant EXW-Mellaredo (our factory), inclusive standard packaging, exclusive of VAT, transport and all other taxes, duties, licenses, export and import duties and other governmental charges which may be imposed on the delivery or carriage of the goods abroad. Transport will be quoted upon request and eventually charged on invoice.

Goods always travel at Buyer's risk and responsibility after leaving our factory. Insurance coverage must be eventually required and beared by the Customer. Claims for shortages, non-conformity or damages during transport will not be accepted unless notified within 3 days of delivery.

Payment, unless otherwise specified, shall take place in advance against Proforma invoice. Bank charges arising from foreign/ intermediary banks will not be accepted. Payment by credit cards is currently not yet available minimum invoice ammount is 250 €.

Delivery date is meant as day of dispatch to forwarder or pick-up at our factory. Pixsys will do its best efforts to meet the delivery date set out in the order confirmation and shall promptly notify any reasonable delay, which will anyway not entitle order cancellation or claim for damages.

Proprietary rights shall be reserved by Pixsys with respects to all goods delivered until receipt in full of the relative payment due.

Installation and maintenance on site is not included in our technical after-sales support.

These terms are governed exclusively by Italian law. Eventual disputes will be submitted to jurisdiction of court in Padova and in Italian language. These general Terms of sale include also the Warranty Terms and RMA system.

WARRANTY TERMS

Pixsys srl warrants its electronic devices for 12 months from Invoice date. Pixsys liability shall be limited to repairing (or replacing at its option) any defective product which is returned with RMA (Return Material Authorization) priorly obtained on Pixsys website and to be clearly marked on documents. Pixsys srl warrants devices reparations for 3 months from Invoice date. Pixsys shall not be responsible for accident, neglect, misuse, damage to objects or people caused using the devices outside their specifications or outside any published performance data, including unauthorized and unqualified repairing or failure to provide proper environmental conditions. **In no event shall Pixsys liability exceed the purchase price of the product(s).**



RMA (Return Material Authorization)

RMA means Return Material Authorization and the purpose is a clear and effective handling of the products which the Customer would like to send us back for any reason.

Starting with January 2015 the request for RMA no. must be completed exclusively online at “My Device” section of Pixsys website”.

When do I need to ask for an RMA?

REPAIRING

Technical service for repairing of instruments or complementary fittings

TECHNICAL SUPPORT

Hardware and software changes, upgrade, any technical improvement

RETURN OF FAULTY PRODUCTS

Return of faulty units for replacement or credit note

RETURN FOR NON-CONFORMITY/ RECESS

Shipment of goods received from our Warehouse and not in compliance with the order. This can be caused by a shipment error and to this event belongs also the RECESS right, the customer can request credit note for the purchased materials within one week from the receipt of the goods.



MY DEVICE

Check online the expiry date of warranty, hardware-software upgrades and any maintenance/ service campaign for your product.
Fill-in the RMA (Return Material Authorization) form if a return to Manufacturer for technical assistance is necessary.

A

Field verification of warranty
reading QR code
by mobile devices

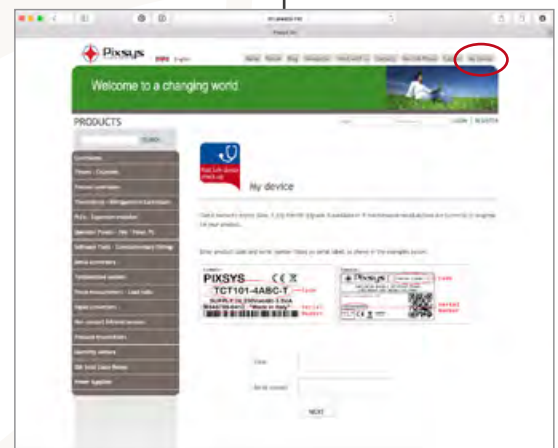
or

B

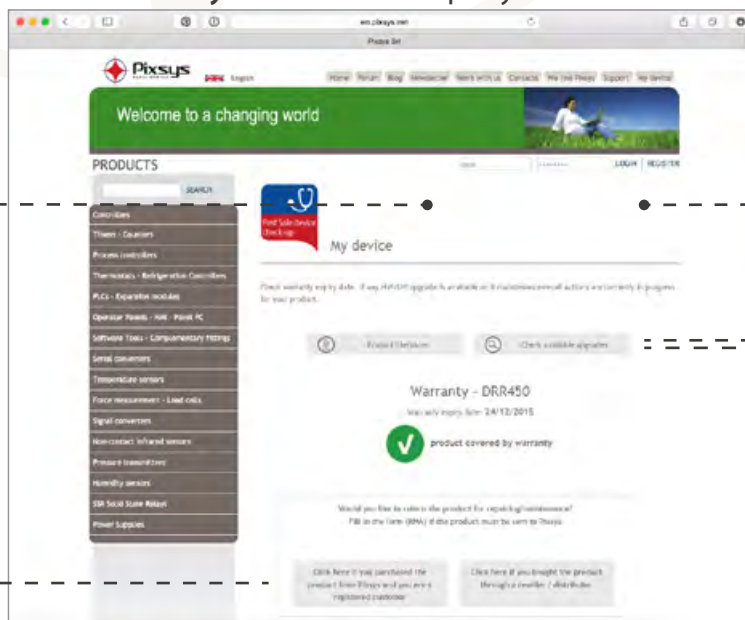
Online verification of warranty
entering product code
and serial number



Read QR code



"My Device" area on pixsys site



Fill in the present form which will be sent automatically to Pixsys for further the return

Form RMA Return Material Authorization

Date: 01/01/2013 Request date: 21/12/2014

Code: 000450156 Serial: 000450156

Product code: 14/06/2014

Customer

Name: _____

Contact person: _____

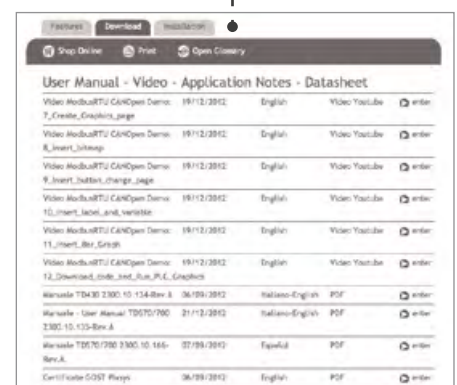
Phone: _____ Fax: _____

Email: _____ Confirmation: _____

Fill-in RMA form



Software updates



User manuals and video tutorials



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