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interamente versato  
Codice fiscale e numero  
iscrizione CCIAA 00793580150

Registro Imprese di Milano  
Sezione Ordinaria  
N. R.E.A. 429222  
P.I. IT00793580150

[1] **EC-TYPE EXAMINATION CERTIFICATE**

[2] **Equipment or Protective System intended for use  
in potentially explosive atmospheres  
Directive 94/9/EC**

[3] EC-Type Examination Certificate number:

**CESI 02 ATEX 115**

[4] Equipment: Temperature transmitters serie DAT

[5] Manufacturer: **DATEXEL S.r.l.**

[6] Address: Via Oslavia, 21 – 21049 TRADATE (VA) - Italy

[7] This equipment or protective system and any acceptable variation thereto is specified in the schedule to this certificate and the documents therein referred to.

[8] CESI, notified body n. 0722 in accordance with Article 9 of the Council Directive 94/9/EC of 23 March 1994, certifies that this equipment or protective system has been found to comply with the Essential Health and Safety Requirements relating to the design and construction of equipment and protective systems intended for use in potentially explosive atmospheres given in Annex II to the Directive.

The examination and test results are recorded in confidential report n. EX-A2/033980.

[9] Compliance with the Essential Health and Safety Requirements has been assured by compliance with:

**EN 50014: 1997 + A1..A2 EN 50020: 2002 EN 50284: 1999**

[10] If the sign "X" is placed after the certificate number, it indicates that the equipment or protective system is subject to special conditions for safe use specified in the schedule to this certificate.

[11] This EC-TYPE EXAMINATION CERTIFICATE relates only to the design, examination and tests of the specified equipment or protective system in accordance to the Directive 94/9/EC. Further requirements of the Directive apply to the manufacturing process and supply of this equipment or protective system. These are not covered by this certificate.

[12] The marking of the equipment or protective system shall include the following:

**II 1 G EEx ia IIC T6, T5, T4**

This certificate may only be reproduced in its entirety and without any change, schedule included.

**Date 29 October 2002 – Translation issued the 29 October 2002**

**Prepared**  
Enrico Radaelli

**Verified**  
Damiano Cavanna

**Approved**  
Ulisse Colombo

*Enrico Radaelli*

*D. Cavanna*

**CESI**  
**CENTRO ELETTROTECNICO SPERIMENTALE ITALIANO**  
**Business Unit Certificazione**

*Il Responsabile*

*Ulisse Colombo*

[13]

## Schedule

[14] **EC-TYPE EXAMINATION CERTIFICATE n. CESI 02 ATEX 115**

[15] **Description of equipment**

Temperature transmitters type DAT 1010 IS, DAT 1010 IS/HT, DAT 1015 IS, DAT 1015 IS/HT, DAT 1065 IS, DAT 1065 IS/HT, DAT 2015 IS, DAT 2015 IS/HT, DAT 4035 IS, DAT 4035 IS/HT.

The temperature transmitters in subject are electronic devices suitable to convert a signal of temperature sensor like thermoresistor RTD, thermocouple TC (excluding type DAT 1010..) and resistance, in a normalized 4 ÷ 20 mA signal.

Type DAT 1010.. , DAT 1015.. and DAT 1065.. are suitable to be installed in thermometric well; type DAT 2015.. and DAT 4035.. are realized to be installed on DIN bar.

Type DAT 1065.. and DAT 4035.. achieve the galvanic insulation between input and output.

All type are provided with two supply/measure terminals and four terminals to connect the sensor.

**Electrical characteristics**

Supply:

Ui: 30 V  
 Ii: 100 mA  
 Pi: 0,75 W  
 Li: 0,1 mH  
 Ci: 10 nF

Output to sensor:

Uo: 6,2 V  
 Io: 100 mA  
 Po: 500 mW  
 Lo: 3,6 mH  
 Co: 5 µF

The temperature classes of transmitters are the following:

**type DAT 1010 IS, DAT 1015 IS, DAT 1065 IS, DAT 2015 IS, DAT 4035 IS**

ambient temperature	temperature class
-20 °C ÷ +55 °C	T6
-20 °C ÷ +70 °C	T5

**type DAT 1010 IS/HT, DAT 1015 IS/HT, DAT 1065 IS/HT, DAT 2015 IS/HT, DAT 4035 IS/HT**

ambient temperature	temperature class
-20 °C ÷ +55 °C	T6
-20 °C ÷ +70 °C	T5
-20 °C ÷ +85 °C	T4

**Warning label**

“Configuration: in safe area through CVPR-03 special cable connected to PRODAT-03 device”.

**Installation conditions**

The equipment subject of this certificate shall be connected only with associated apparatus certified according to EN 50014 and EN 50020 standards with the electrical characteristics mentioned.

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[13]

## Schedule

[14] **EC-TYPE EXAMINATION CERTIFICATE n. CESI 02 ATEX 115**

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[16] **Report n. CESI EX-A2/033980**

### **Routine tests**

The manufacturer shall carry out the routine tests provided for at paragraph 24 of EN 50014 standard and for type DAT 1065.. and DAT 4035.. the test on transformer provided for at paragraph 8.2 of EN 50020 standard.

### **Descriptive documents (prot. EX-A2/033990)**

- n. NT 0101 Rev. 2 (29 pg.)      dated 11.06.2002
- n. NT 0102 Rev. 2 (40 pg.)      dated 11.06.2002
- n. NT 0103 Rev. 2 (27 pg.)      dated 11.06.2002
- n. NT 0104 Rev. 2 (30 pg.)      dated 11.06.2002
- n. NT 0105 Rev. 1 (10 pg.)      dated 11.06.2002
- n. NT 0106 Rev. 1 (29 pg.)      dated 11.06.2002

One copy of all documents is kept in CESI files.

[17] **Special conditions for safe use**

None.

[18] **Essential Health and Safety Requirements**

Assured by compliance to the Standards indicated at page 1.



## EXTENSION n. 01/06

to EC-Type Examination Certificate CESI 02 ATEX 115

Equipment: Temperature transmitters series DAT  
Manufacturer: DATAEXEL SRL  
Address: Via Montenero, 40/B – 21049 TRADATE (VA) - Italy

### Admitted variation

- 1 – Constructional modification of printed circuit board for new tipe of oscillator.
- 2 – Constructional modification to device of configuration CVPR-03 e PRODAT.
- 3 – Update of document for the change of address.

Details of constructional modification are specified in the descriptive document annexed to this extension.

**Report** prot. n. EX-A6006655

### Descriptive documents (prot. EX-A6005173)

- |                                  |       |            |
|----------------------------------|-------|------------|
| - n. NT 04004 (pg.34)            | dated | 08.06.2005 |
| - n. NT 04004/B (pg.3)           | dated | 08.06.2005 |
| - n. Letter of change of address | dated | 15.02.2006 |


One copy of all documents is kept in CESI files.

This extension and annexed descriptive documents must be annexed to the EC-Type Examination Certificate CESI 02 ATEX 115.

This document may only be reproduced in its entirety and without any change.

**date** 28 February 2006 – translation issued the 28 February 2006

**prepared** GEN – Maurizio Curati 

**verified** GEN – Damiano Cavanna 

**approved** FSQ – Ulisse Colombo

**CESI**  
CENTRO ELETTROTECNICO SPERIMENTALE ITALIANO  
Funzione Sicurezza, Servizi e Qualità  
Il Responsabile



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Prot. A6005169

P: 1+38