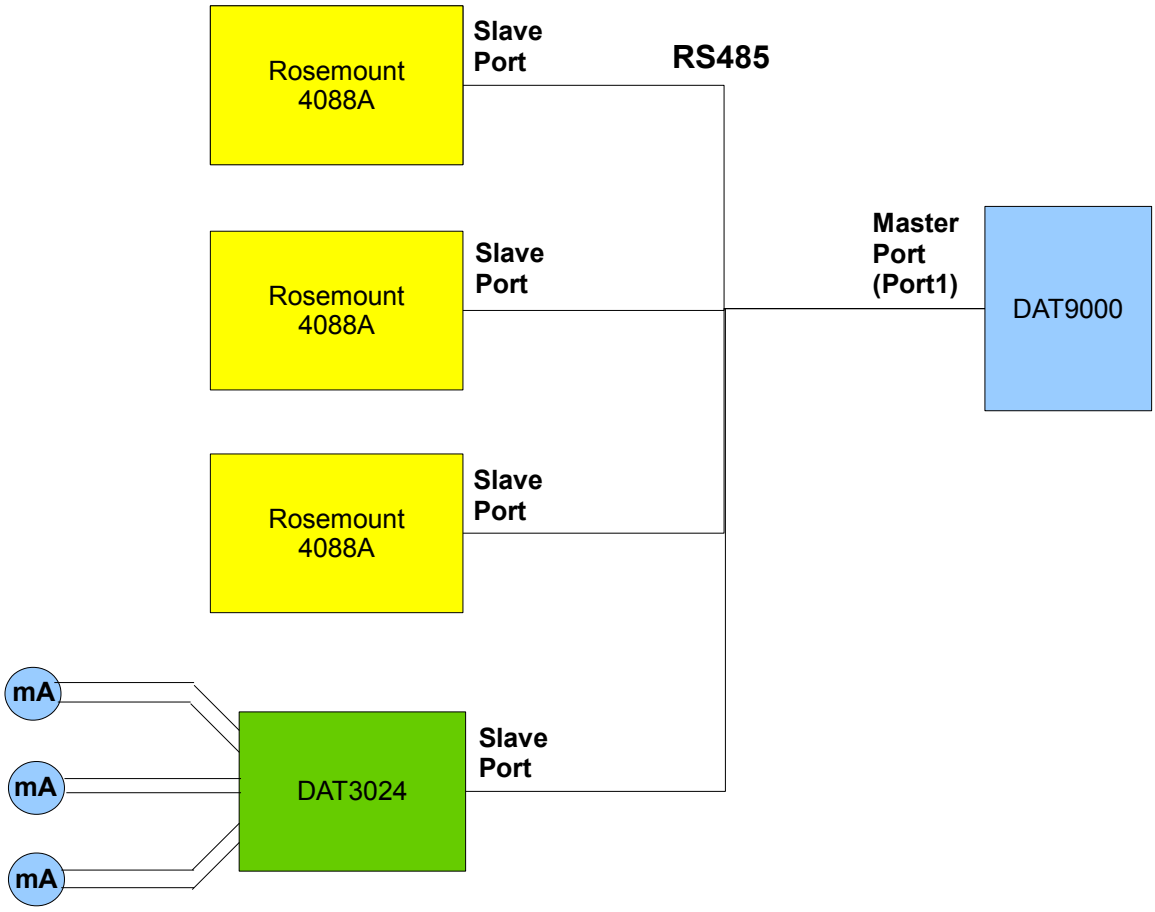
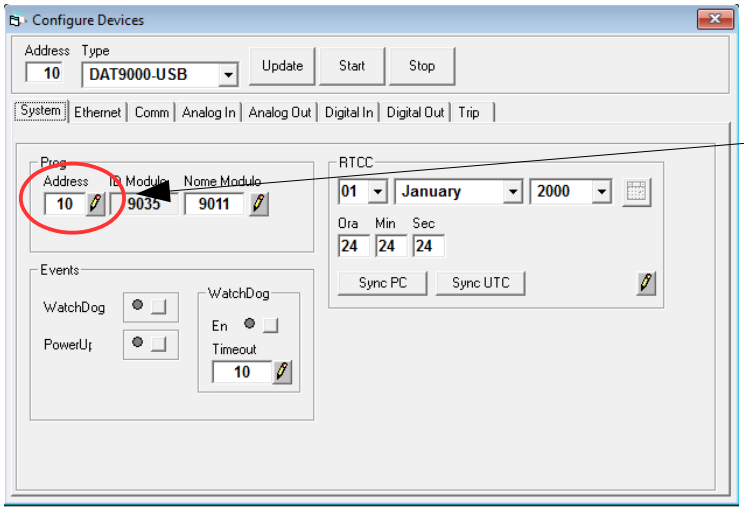
Read 3 sensors, scale the values and write the 3 current outputs on 3024 on RS485 network



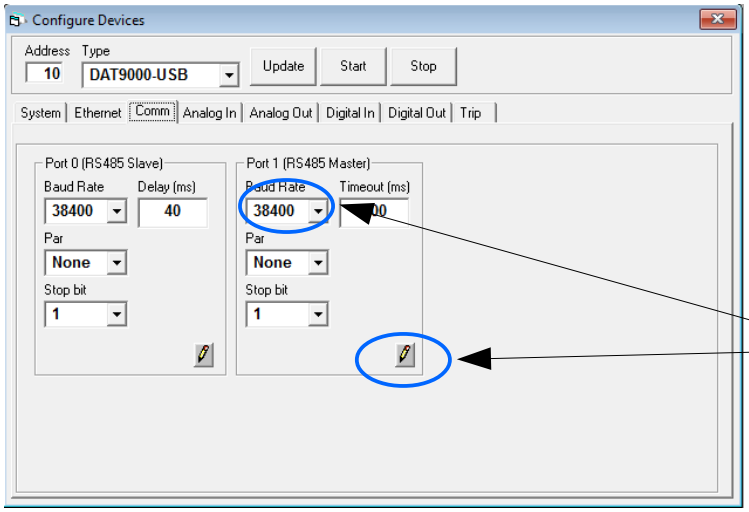
Each device connected on RS485 Network must have the same Baud Rate (for example 38400 bit/s) and a different Modbus Address

- **Configure Communication Parameters of DAT9000 and DAT3024**

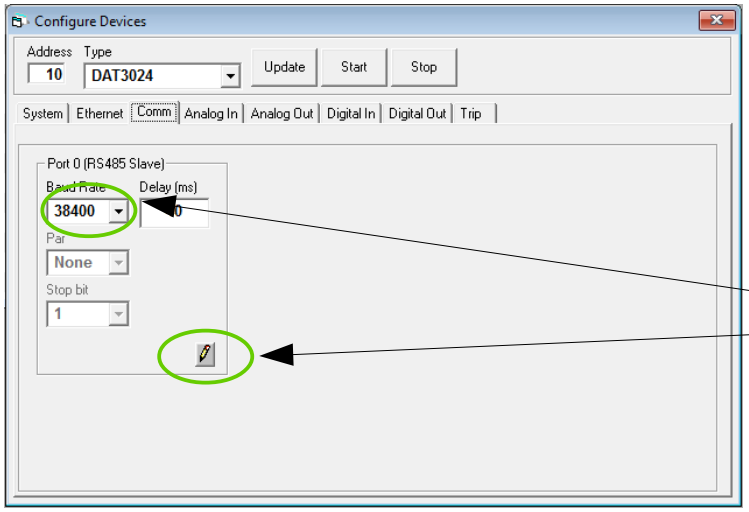
To access to the window device configuration on Dev9k select *Tools-> Config* by toolbar.



In System Tab it is possible to change the Modbus Address of DAT9000 and DAT3024 inserting desired value and clicking on

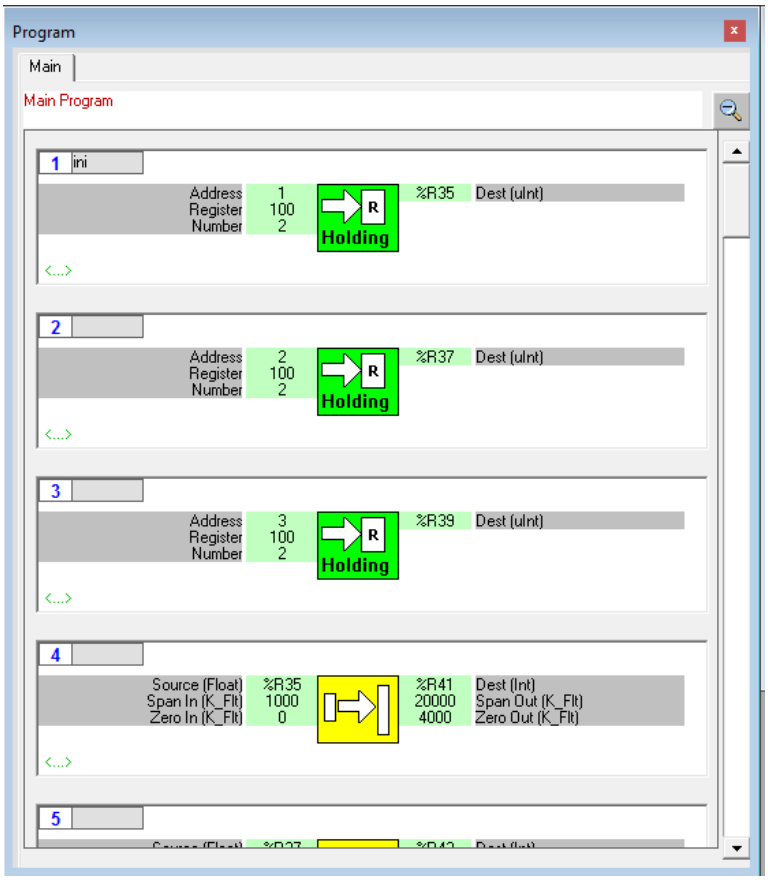


In Comm Tab for the DAT9000 it is possible to change the Baud Rate of Master Port.
Change the value and click on



For the DAT3024 it is possible to change the Baud Rate of Slave Port.
Change the value and click on

- **Dev9k Project Example**

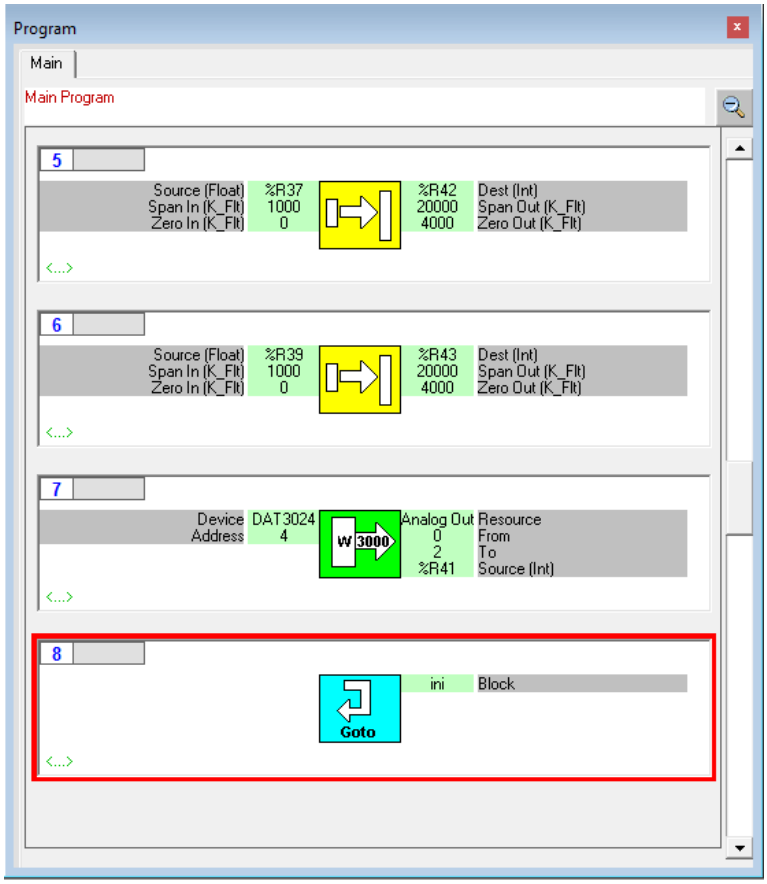


Block1, Block2, Block3
"Read Holding" → Read the value from external device: Rosemount 4088A.

•*Address*: in base of their Modbus Addresses
•*Register*: in base of their position register
•*Number*: 2 (for float number), 1 (for int number)
•*Dest*: internal register destination of DAT9000

Block4, Block5, Block6
"Scale" → Executes the proportional scaling of the value read by the Rosemount 4088A.

•*Source*: in base of the internal register used previously
•*Span In, Zero In*: in base of the range of values
•*Dest*: internal register destination of DAT9000
•*Span Out, Zero Out*: 20000, 4000 corresponding to 4/20 mA



Block7
"Write Device" → Write the Output Registers of the DAT3024.

•*Device*: DAT3024
•*Address*: in base of DAT3024's Addresses
•*Resource*: Analog Out
•*From, To*: 0, 2(Out0, Out1, Out2)
•*Source*: first internal register of DAT9000 with values to write in DAT3024

Block8
"Goto" → jump to the beginning of the main program identified from by the label "ini"

Writing the project to the DAT9xxx

Save the project, reconnect the controller and set the DAT9xxx in Debug mode (click on Debug button, the yellow led starts blinking).
Click on the Download button and in the Download form click on Ok. This could take a few minutes.
At the end, set in Release mode.
Now, the Project should run.