

Connecting and Configuring a Calex Electronics two-wire 4-20 mA output sensor with a DRR245 Controller

Connecting sensor and power:

1. Attach power supply wires to pin 23 & 24
2. Attach sensor wires:

For PyroCouple and PyroUSB sensors:

PWR + (Red) to pin 16
PWR - (Black) to pin 13

3. Turn on the power. The display flashes "E-05".

Entering configuration mode:

4. Press and hold SET for 5 seconds until the display shows "0000".
5. Enter the password. Default password is "1234":
Press UP to increase first digit to "1". Press SET.
Press UP twice to increase second digit to "2". Press SET.
Press UP three times to increase third digit to "3". Press SET.

Press UP four times to increase third digit to "4". Press SET.

The display shows first configuration parameter "c.out".

Inputting the sensor's temperature range:

6. Adjust the configuration parameters:

Press UP and DOWN to select a configuration parameter to adjust.
Hold SET and press UP and DOWN to change the value.

7. Change the value of parameter "Sen." to "4.20"

The controller now accepts the sensor's 4-20 mA input.

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Use the table below to input the temperature range limits:

8. Change the value of "Lo.L.1" to the lower limit of the sensor's temperature range, in °C
9. Change the value of "uP.L.1" to the upper limit of the sensor's temperature range, in °C

Sensor	Lo.L.1	uP.L.1
PCxxxLT-0	-20	100
PCxxxMT-0	0	250
PCxxxHT-0	0	500
PUA8 (all models)	-40*	1000*
PUA2-151-LT	45*	300*
PUA2-151-PT	100*	400*
PUA2-xxx-MT	250*	1000*
PUA2-xxx-HT	450*	2000*
PUA5-xxx-GLT	50*	1000*
PUA5-xxx-GHT	200*	1650*

* The temperature range limits of all PyroUSB sensors may be changed using Calex or third party software. Please ensure Lo.L.1 and uP.L.1 match the limits you have set using the software.

10. Press UP and DOWN simultaneously to exit configuration mode. The display now shows the measured temperature.