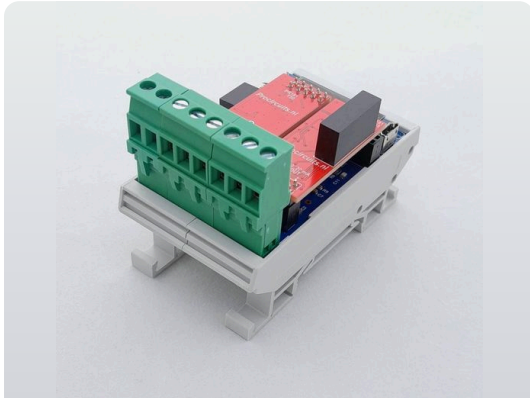


Potentiometer to 4-20 mA signal conditioner, isolated, with display

Article number PR181-X089



The PR181-X089 converts the position of a potentiometer into a 4-20 mA signal. The output is galvanically isolated from the input and the supply to prevent ground loops. Lower and upper limits of input and output are set independently on the display, as is the rise and fall rate of the output. As delivered, the module gives 4 mA with the potentiometer fully anticlockwise and 20 mA fully clockwise.

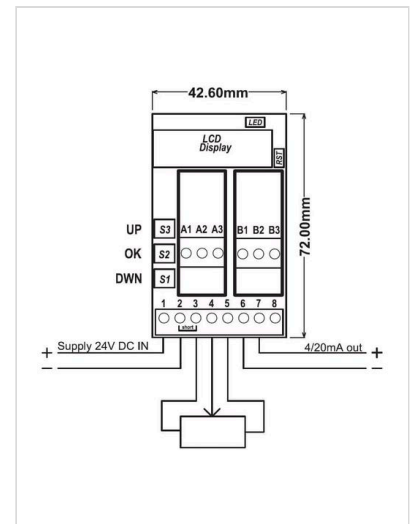
Price on request. Lead time on request. Not in stock? We will make it.

Specifications

Supply	9 to 30 V DC
Input	Potentiometer on terminals 3, 4 and 5
Output	4-20 mA as delivered, 21 mA max.; lower and upper limit adjustable
Isolation	Output galvanically isolated from input and supply
Setup	Display with UP, OK and DOWN buttons
Rise and fall rate	Adjustable on the display
Ambient temperature	-25 to 55 °C, non-condensing
Dimensions	45 x 83 mm with DIN rail enclosure, 42.6 x 72 mm without
Factory setting	Potentiometer fully anticlockwise = 4 mA, fully clockwise = 20 mA

Connections

Terminal 1	Supply plus
Terminal 2	Supply minus
Terminal 3	Potentiometer minus, internally connected to terminal 2
Terminal 4	Potentiometer signal (wiper)
Terminal 5	Potentiometer plus
Terminal 6	Isolated output common
Terminal 7	Isolated 4-20 mA output (plus)
Terminal 8	Not used



Setup

1. Connect the module according to the terminal table and switch on the supply.
2. Set the potentiometer to its lowest position, for example fully anticlockwise. In the menu, select IN1 – Set minimum, press OK, select YES and press OK again.
3. Set the potentiometer to its highest position, for example fully clockwise. Select IN1 – Set maximum, press OK, select YES and press OK again.
4. Set the lower limit of the output with OUT1 minimum adj: change the value with UP and DOWN and confirm with OK.
5. Set the upper limit of the output in the same way with OUT1 maximum adj.
6. If required, set the rise and fall rate of the output with IN1 Ramp-Up and IN1 Ramp-Down.
7. Fine adjustment: IN1 minimum adj and IN1 maximum adj fine-tune the input limits. Setting OUT1 invert to 1 reverses the output: the lowest potentiometer position then gives the highest output level.
8. Go to the SAVE menu to store the new settings.

More information, price and lead time: www.procircuits.nl/en/products/pr181-x089

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