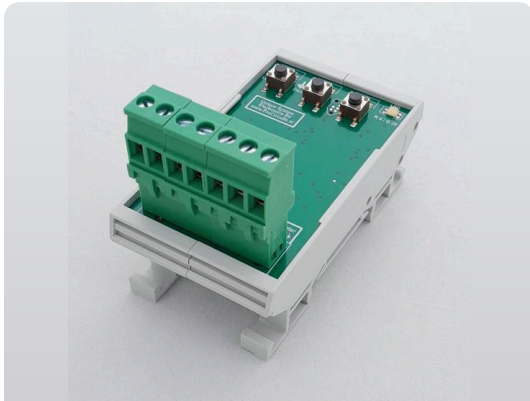


Potentiometer to 4-20 mA converter, push-button setup

Article number PR100s01



The PR100s01 converts the signal of a potentiometer or sensor from 500 Ω to 100 k Ω into a 4-20 mA or 0-20 mA current signal. The output is calibrated at the press of a button: potentiometer in the position for 20 mA, press the button; potentiometer in the position for 4 mA, press the button. Fine adjustment by hand remains possible afterwards. The output is not galvanically isolated: the output minus is internally connected to the supply minus.

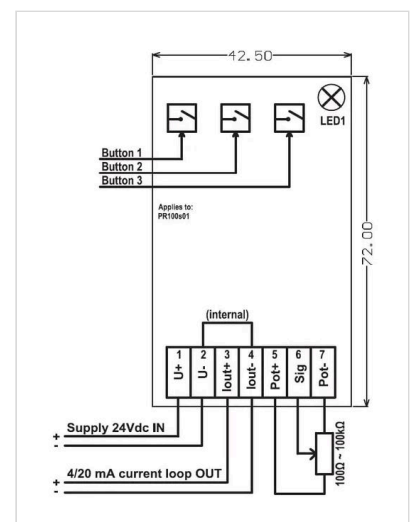
Price on request. Lead time on request. Not in stock? We will make it.

Specifications

Supply	12 and 24 V DC, operating range 11 to 30 V DC
Input	Potentiometer or sensor, 500 Ω to 100 k Ω
Output	0 to 22 mA, for 4-20 mA and 0-20 mA
Isolation	Not isolated: the output minus (terminal 4) is internally connected to the supply minus (terminal 2)
Setup	Three push buttons and a green LED
Ambient temperature	0 to 55 °C
Dimensions	Board 43 x 72 mm
Mounting	DIN rail holder, supplied as standard

Connections

Terminal 1	Supply plus, 12 or 24 V DC
Terminal 2	Supply minus, also common ground for the analogue signals
Terminal 3	4-20 mA output plus
Terminal 4	4-20 mA output minus, internally connected to terminal 2
Terminal 5	Potentiometer or sensor plus
Terminal 6	Potentiometer or sensor signal (wiper)
Terminal 7	Potentiometer or sensor minus



Setup

1. Set up the module when it is first connected and every time you use a different potentiometer or sensor.
2. Connect the potentiometer or sensor to terminals 5, 6 and 7, and the output to terminals 3 and 4.
3. Apply 12 or 24 V DC to terminals 1 and 2. The green LED lights continuously.
4. Hold button 3 for four seconds. The LED flashes green: the module is in programming mode.
5. Set the potentiometer to the position where you want 20 mA, for example the maximum. Hold button 2 for four seconds. The LED flashes quickly for two seconds.
6. Set the potentiometer to the position where you want 4 mA, for example the minimum. Hold button 1 for four seconds. The LED flashes quickly for two seconds.
7. Hold button 3 again for four seconds to save. The LED flashes quickly for two seconds and then lights green continuously. The module is ready for use.
8. To restore the factory settings: disconnect the supply, hold button 2 and reconnect the supply. If the green LED flashes briefly and quickly, the module has been reset.

More information, price and lead time: www.procircuits.nl/en/products/pr100s01

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