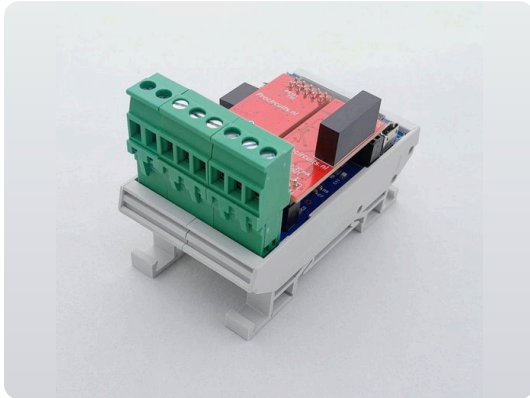


4-20 mA to 0-10 V signal conditioner, dual channel, isolated, with display

Article number PR181-X003



The PR181-X003 has two channels, each converting a 4-20 mA or 0-20 mA signal to 0-10 V. The outputs are galvanically isolated from the inputs and the supply to prevent ground loops. For each channel, the 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, 4 mA at the input gives 0 V and 20 mA gives 10 V.

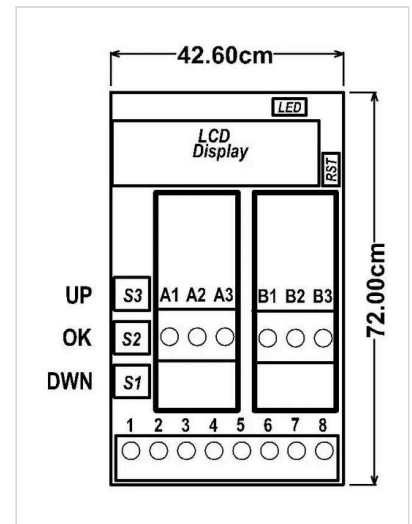
Price on request. Lead time on request. Not in stock? We will make it.

Specifications

Supply	9 to 30 V DC
Input	Two 4-20 mA or 0-20 mA inputs, 25 mA max.; input 1 on terminal 4, input 2 on terminal A1
Output	Two 0-10 V outputs; lower and upper limit adjustable per output
Isolation	Outputs galvanically isolated from inputs and supply
Setup	Display with UP, OK and DOWN buttons
Rise and fall rate	Adjustable per output 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	4 mA = 0 V, 20 mA = 10 V

Connections

Terminal 1	Supply plus
Terminal 2	Supply minus
Terminal 3	Common minus, internally connected to terminal 2
Terminal 4	Input 1, 4-20 mA or 0-20 mA (plus)
Terminal 5	Not used
Terminal 6	Isolated output common (0 V)
Terminal 7	Isolated output 1, 0-10 V (plus)
Terminal 8	Isolated output 2, 0-10 V (plus)
Terminal A1	Input 2, 4-20 mA or 0-20 mA (plus)
Terminal A2	Not used
Terminal A3	Not used



Setup

1. Connect the module according to the terminal table and switch on the supply.
2. Bring input 1 to its lowest value, for example 4 mA. In the menu, select IN1 – Set minimum, press OK, select YES and press OK again.
3. Bring input 1 to its highest value, for example 20 mA. Select IN1 – Set maximum and confirm in the same way.
4. Set up input 2 in the same way with IN2 – Set minimum and IN2 – Set maximum.
5. Set the limits of output 1 with OUT1 minimum adj and OUT1 maximum adj: change the value with UP and DOWN and confirm with OK.
6. Set the limits of output 2 in the same way with OUT2 minimum adj and OUT2 maximum adj.
7. If required, set the rise and fall rate with IN1 Ramp-Up and IN1 Ramp-Down (output 1) and IN2 Ramp-Up and IN2 Ramp-Down (output 2).
8. Fine adjustment: IN1 and IN2 minimum adj and maximum adj fine-tune the input limits. Setting OUT1 invert or OUT2 invert to 1 reverses that output: the lowest input value then gives the highest output level.
9. Go to the SAVE menu to store the new settings.

More information, price and lead time: www.procircuits.nl/en/products/pr181-x003

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