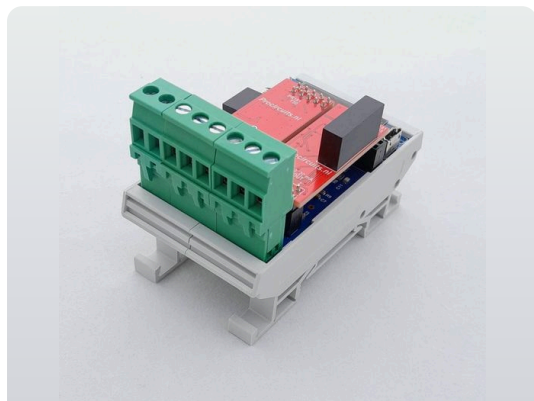


0-5 A AC to 0-20 mA signal conditioner, isolated, with display

Article number PR181-X015



The PR181-X015 measures a 0-5 A alternating current, for example from a current transformer, and converts it into a galvanically isolated 0-20 mA signal: 0 A RMS gives 0 mA, 5 A RMS gives 20 mA. Measurement uses a magnetic field sensor, so the module produces little heat and needs no external shunt resistor. The input range can be set up to 7.5 A; the lower and upper limits of the output are set on the display. Input, output and supply are galvanically isolated from each other.

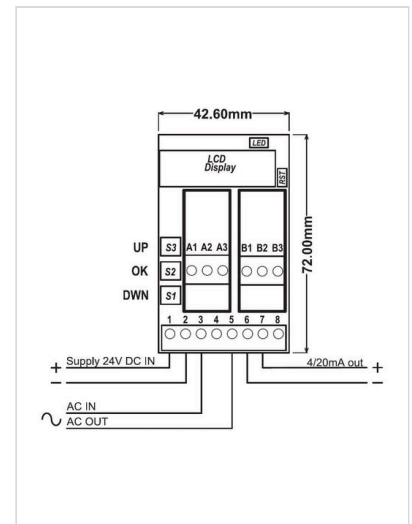
Price on request. Lead time on request. Not in stock? We will make it.

Specifications

Supply	9 to 30 V DC
Input	Alternating current 0-5 A RMS on terminals 3 and 5; range adjustable up to 7.5 A RMS max.
Output	0-20 mA as delivered, 0 to 21 mA; lower and upper limit adjustable
Isolation	Input, output and supply galvanically isolated from each other
Setup	Display with UP, OK and DOWN buttons
Input frequency	50 to 60 Hz
Measuring principle	Magnetic field sensor, no external shunt resistor needed
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	0 A RMS = 0 mA, 5 A RMS = 20 mA

Connections

Terminal 1	Supply plus
Terminal 2	Supply minus
Terminal 3	AC current in
Terminal 4	Not used
Terminal 5	AC current out
Terminal 6	Isolated output common
Terminal 7	Isolated 0-20 mA output (plus)
Terminal 8	Not used



Setup

1. When measuring the consumption of a 230 V AC device, always place a current transformer between that device and the module.
2. Connect the module according to the terminal table and switch on the supply.
3. For an input range other than 5 A: select milliAmps Max, use UP and DOWN to set the current at which the output should give 20 mA, in mA (7500 max.), and confirm with OK.
4. Set the lower limit of the output with Output mA Low and the upper limit with Output mA Max: change the value with UP and DOWN and confirm with OK.
5. If required, set the rise and fall rate of the output with Output Ramp-Up and Output Ramp-Dwn.
6. Converterstatus shows the actual current in amperes and the output level as a percentage; milliAmps Low is always 0 on this module.
7. Go to the SAVE menu to store the new settings.

More information, price and lead time: www.procircuits.nl/en/products/pr181-x015

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