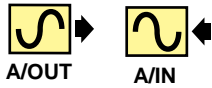


AC Current To Analog Transducer With Optional Relay MCR Series



Model MCR-S
\$280
Basic Unit

- ✓ Simultaneous Voltage and Current Output
- ✓ DIN Rail Mountable
- ✓ Models available with 3A Relay Alarm Contacts and Additional NPN Alarm Output
- ✓ Optional Isolated Models

The MCR-S current to analog transducer features five current input ranges: 0-1 A, 0-5 A, 0-10 A, 0-20 A and 0-50 A RMS.

The module provides two outputs, 4-20 mA and 0-10 VDC. Both outputs may be used simultaneously without any jumper changes or switch settings.

Installation is on a snap-on DIN rail mounting foot. For current signals of 0-1A, 0-5 A and 0-10 A, a pluggable connector is provided which will accept up to 14 AWG wire. 0-20 A and 0-50 A modules will accept an 8 gauge, single conductor wire that is inserted into the modules "built in" wire way.

"SW" SERIES – SWITCH OUTPUT

In addition to the 4-20 mA and 0-10 VDC output the switch output modules provide an adjustable relay contact (3 A/250 Vac) based on the potentiometer setting. An LED is provided for relay contact status, and an additional output (8-30 V dc @ 100 mA maximum) is available through an optically isolated NPN (sinking) transistor.

Both isolated and non-isolated models are available.

Specifications

INPUT

Input Range: 0-1 A to 0-50 A

Input Power Supply: 20 to 30 Vdc

OUTPUT

Lead/Line Resistance or Burden: 0-10 V: ≥ 2000 Ohms; 4-20 mA: ≤ 500 Ohms

Ripple (Output): < 50 mV

SWITCH OUTPUT

Transistor Output: Voltage: 8-30 V dc; Current: 100 mA max

Protection Suppressor Diode: 36 V dc

RELAY OUTPUT

Type: SPDT (Form C)

Ratings: 250 Vac/3A

General Specifications

Current Consumption: 24 V dc @ ≤ 100 mA

Isolation Voltage (Common Mode): 2.5 KV (/DC models only)

Operating Ambient: 0 to 50°C

ERROR SOURCES

Offset Error: $\leq 0.5\%$

Linearity: $\leq 1.0\%$

Frequency Error: $\leq 0.5\%$

Setpoint Hysteresis: 10% (switch modules only)

Temperature Coefficient: 350 ppm/K

Sinusoidal Input Frequency Limit: N/A

Maximum Wire Size:

14 AWG, termination wire;

8 AWG, monitored wire

Power: 24 Vdc

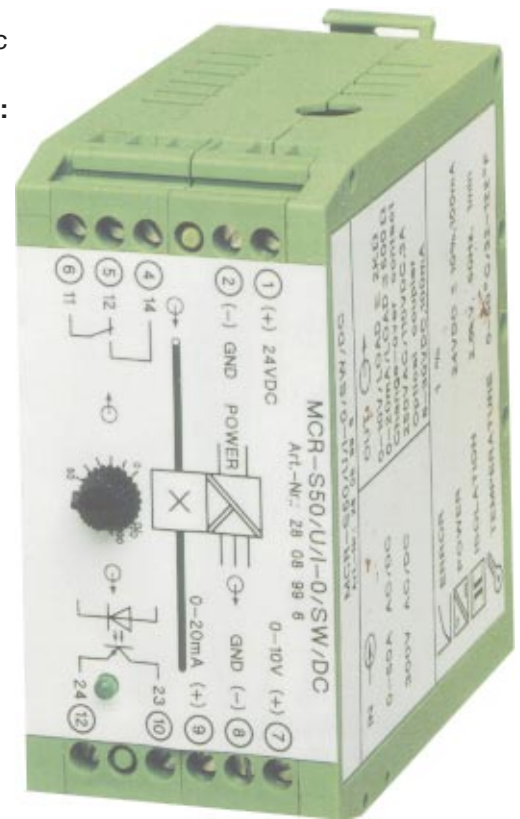
Mounting: 35 mm DIN rail

DIMENSIONS

MCR-(*)/U/I-4: 79 H x 25 W x 93 mm D

All Other Models:

79 W x 40 W x 93 mm D



Shown smaller than actual size.

Range Code	Range
S1	0-1A RMS
S5	0-5A RMS
S10	0-10A RMS
S20	0-20A RMS
S50	0-50A RMS

To Order (*Specify Model Number*)

Model No.	Price	Description
MCR-(*)/U/I-4	\$280	Non-isolated module with 4-20 mA and 0-10 VDC output
MCR-(*)/U/I-4/DC	397	Isolated module with 4-20 mA and 0-10 VDC output
MCR-(*)/U/I-4/SW	320	Non-isolated module with 4-20 mA 0-10 VDC and switch outputs
MCR-(*)/U/I-4/SW/DC	412	Isolated module with 4-20 mA, 0-10 VDC and switch outputs

* Insert Range code from Range code table

Ordering Example: MCR-S5/U/I-4/DC Isolated module with 4-20 mA and 0-10 VDC output, \$397.