# **SNAP Analog Input Modules**

# Current Input Module, -20 mA to +20 mA, Eight Channels

#### **SNAP-AIMA-8**

#### **Current Source**

4-20 self-powered (self-sourcing) transmitters

NOTE: Terminals 2, 4, 6, and 8 on both connectors are connected internally.



NOTE: For transmitters sharing the plus side of the loop power supply, the input current will be read as a positive current.



Part Number	Description
SNAP-AIMA-8	Eight-channel analog current input, -20 mA to +20 mA

### Description

The SNAP-AIMA-8 module provides an input range of -20mA to +20mA with eight channels of analog current input. (If you need a similar module with 32 channels, see page 9.) The SNAP-AIMA-8 can be used with SNAP PAC brains and rack-mounted controllers only. These modules DO NOT supply loop excitation current.

Since all inputs share a common reference, the module must be installed at the beginning or end of a typical 4–20mA loop. If you are using both standard and self-sourcing transmitters, either put the transmitters on different modules or use different power supplies. If you need channels that are isolated from each other on the same module, see Opto 22 form #1182.

If you have multiple self-sourcing transmitters that share the same positive common, do not use this module. Use the SNAP-AIMA-i module instead. See Opto 22 form #1182.

## **Specifications**

Input Range	-20 mA to +20 mA
Over-Range Limits	From -22 to +22 mA (+/-20 mA range)
Resolution	0.8 microamps
Data Freshness (Max)	0.28 seconds
DC Common Mode Rejection	>-120 dB
AC Common Mode Rejection	>-120 dB @ 60 Hz
Maximum Survivable Input	36 mA or 9 VDC
Maximum Operating Common Mode Voltage	250 V
Accuracy	0.05% (10 microamps)
DRIFT: Gain Temperature Coefficient	30 PPM/ °C
DRIFT: Offset Temperature Coefficient	15 PPM/ °C
Isolation	1500 V
Power Requirements	5 VDC (±0.15 ) @ 170 mA
Input Resistance - Single Ended	200 ohms (all channels share the same reference point)
Operating Temperature	0 °C to 70 °C
Storage Temperature	-25 °C to 85 °C

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8