



ANALOG ISOLATION MODULE

GT-AI420 Series

The GT-AI420 analog isolation module is a 2 wire loop powered 4-20 mA signal isolator with one input/output channel. It will accept one analog, current or voltage output, input signal, isolate it and sink a current output signal. The input signal has several fixed ranges for various applications.

The device derives it’s operating power from the output current loop that is provided by the receiving device and has an on-board transformer that provides complete input/ output isolation.

Both the input and output are sinking type and the input signal types are easily selected with DIP switches.

PRODUCT HIGHLIGHTS

* Input/Output signal isolation
* Field selectable input/output ranges
* Selection Current Outputs
* Loop-powered
* Compact and economical
* Snap track mounted

SPECIFICATIONS



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| DESCRIPTION | ENGINEERING SPEC |
| POWER SUPPLY | Powered by output current (15-30 Vdc) |
| ISOLATION | 1000Vrms input to output |
| ACCURACY | ±0.1% typical |
| OPERATING CONDITIONS | 0 to 50°C (32 to 122°F) 5 to 95 %RH non-condensing |
| STORAGE CONDITIONS | -30 to 70°C (-22 to 158°F) 5 to 95 %RH non-condensing |
| WIRING CONNECTIONS | Screw terminal block (14 to 22 AWG) |
| ENCLOSURE | Snap track mounting61mm L x 83mm W (2.4” x 3.25”) |
| WEIGHT | 56g (1.98oz) |
| INPUT SIGNAL | **Voltage Range:** 0-5, 0-10, 1-5, or 2-1 Vdc (switch selectable)**Current Range:** 0-20 or 4-20 mA (switch selectable)**Current Impedance:** 250 Ω**Voltage Impedance:** >10 KΩ |
| OUTPUT SIGNAL | **Current Range:** 4-20 mA**Current Impedance:** 750 Ω maximum with 24 Vdc supply**Resistance Accuracy:** ±5%**Current Signal Type:** Sink (requires a loop power supply) |
| COUNTRY OF ORIGIN | Canada |