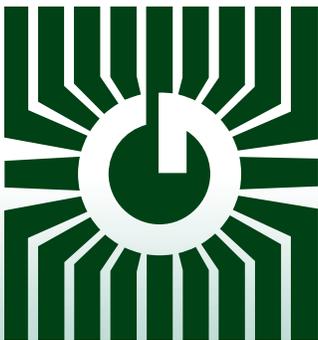
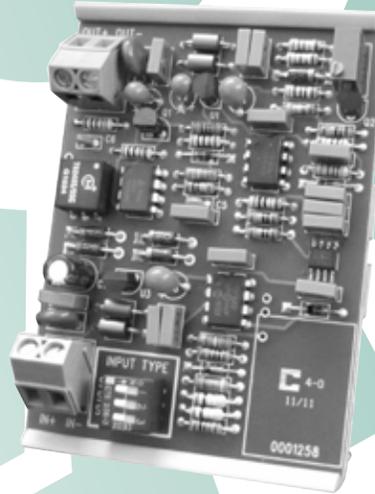


# GREYSTONE

ACCURACY BY DESIGN



## ANALOG ISOLATION MODULE Model GT-AI420



### Precision Signal Conditioning

#### FEATURES:

- Input Output Signal Isolation
- Field Selectable Input Ranges
- Selection Current Outputs
- Loop-powered
- Compact and Economical
- Snap Track Mounted

*Peace of mind  
through reliable  
signal interfaces*

GREYSTONE HAS AN ISO 9001 REGISTERED QUALITY SYSTEM

## APPLICATIONS:

- Isolated signal conversion
- Eliminate ground loop wiring problems
- Variable frequency motor drive signal isolation
- Electric actuator isolation
- Easily interface recorders, data loggers and controllers
- Interface and isolate DDC, EMS and HVAC panels

## PRODUCT DESCRIPTION:

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

The device derives its 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.

## SPECIFICATIONS:

### General Specifications

Power Supply	Powered by output-loop 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 mounting 2.4" L x 3.25" W 61 x 83 mm
Weight	56 gm (1.98 oz)

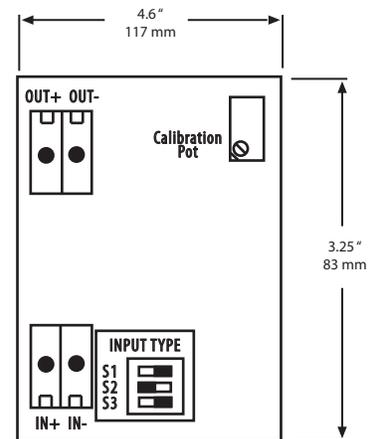
### Input Signal

Voltage Range	0-5, 0-10, 1-5, or 2-10 Vdc (Switch selectable)
Voltage Impedance	> 10 KΩ
Current Range	0 to 20 or 4-20 mA (switch selectable)
Current Impedance	250 Ω
Current Signal Type	Sink (external transducer generates 4-20 mA)

### Output Signal

Current Range	4-20 mA
Current Impedance	750 Ω max with 24 Vdc supply
Resistance Accuracy	± 5%
Current Signal Type	Sink (requires a loop power supply)

## DIMENSIONS:



## ORDERING INFO:

**GT-AI420**



# GREYSTONE

ACCURACY BY DESIGN

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*Greystone Energy Systems Inc. is one of North America's largest ISO registered manufacturers of HVAC sensors and transducers for Building Automation Management Systems.*

*We have conscientiously established a worldwide reputation as an industry leader by maintaining leading-edge design technology, prompt technical support, and a commitment to on-time deliveries. We take pride in our Quality Management System which is ISO 9001 certified, assuring our customers of consistent product reliability.*

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