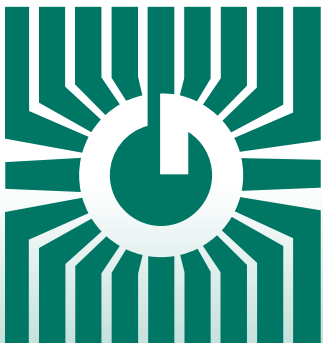
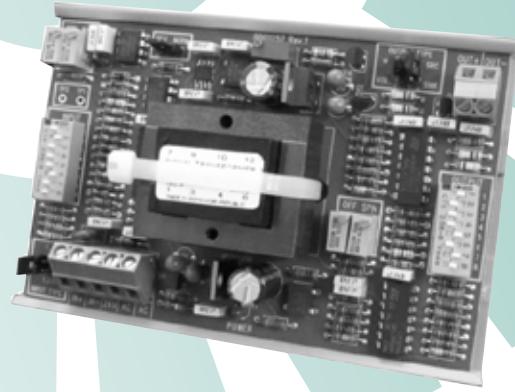


# GREYSTONE ENERGY SYSTEMS INC



## ANALOG ISOLATION MODULE Model GT-AI



### Precision Signal Conditioning

#### FEATURES:

- Input/Output Signal Isolation
- Field Selectable Input/Output Ranges
- Direct or reverse acting
- Regulated power supply output
- 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 or reversal
- 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-AI analog isolation module is a 3-way isolating analog signal re-scaling module with one input/output channel. It will accept one analog voltage or current input signal, isolate it and re-scale it to another voltage or current output signal. The I/O signals have several pre-calibrated, fixed ranges or may be custom calibrated for various offsets and spans and can be direct or reverse acting to provide signal inversion.

The device has an on-board transformer that provides power supply isolation and also input/output signal isolation.

The GT-AI also includes a regulated +24 Vdc power output that can be used to power a transducer or a resistance input. It features top-adjust trim-pots for offset and gain control, source or sink capabilities and an LED power indicator. Various I/O signal types are easily selected with DIP switches.

## SPECIFICATIONS:

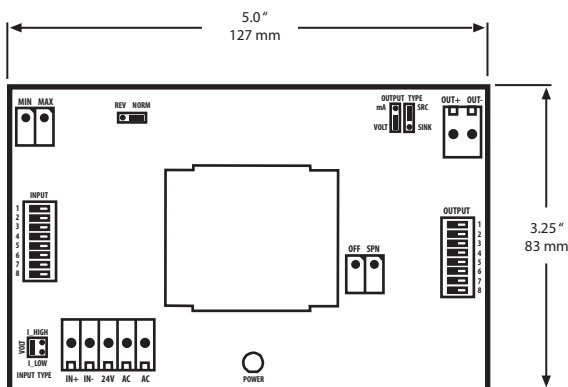
### General Specifications

Power Supply.....	24Vac ± 10%
Consumption.....	150 mA max.
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 5.0" L x 3.25" W x 1.85" H 127 x 82.5 x 47 mm
Weight.....	285 gm (10 oz)

### Power Output

Regulated Power Output.....	24Vdc ± 10% @ 30 mA maximum (use to power an external sensor)
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## DIMENSIONS:



### Input Signal

Preset Voltage Range.....	0-1, 0-5, 0-10, 0-15, 0-20 1-5, 2-10, 3-15 and 4-20 Vdc
Adjustable Voltage Offset.....	0-20 Vdc
Adjustable Voltage Span .....	1-20 Vdc
Voltage Impedance .....	> 10 KΩ

Preset Current Range.....	0-1, 0-20 and 4-20 mA
Adjustable Current Offset.....	0-15 mA
Adjustable Current Span .....	4-20 mA
Current Impedance.....	250 Ω (1 KΩ for 0-1 mA range)

### Output Signal

Preset Voltage Range.....	0-5, 1-5, 0-10 and 0-20 Vdc
Preset Voltage Offset.....	0, 1 and 2 Vdc
Preset Voltage Spans.....	1, 3, 4, 5, 6, 7, 8 and 10 vdc
Adjustable Voltage Offset.....	0-10 Vdc
Adjustable Voltage Span .....	1-20 Vdc
Voltage Impedance .....	> 10 KΩ

Preset Current Range.....	0-20 and 4-20 mA
Preset Current Offset.....	0, 4 and 8 mA
Preset Current Spans.....	4, 12, 16 and 20 mA
Adjustable Current Offset.....	0-12 mA
Adjustable Current Span .....	4-20 mA
Current Impedance.....	750 Ω

Current Signal Type .....	Source or Sink (jumper selectable)
Signal Direction.....	Normal/Reversible via single jumper
Accuracy.....	±1% typical

## ORDERING INFO:

GT-AI



# GREYSTONE

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*Greystone Energy Systems Inc. is one of North America's largest ISO registered manufacturers of HVAC/R sensors and transmitters 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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