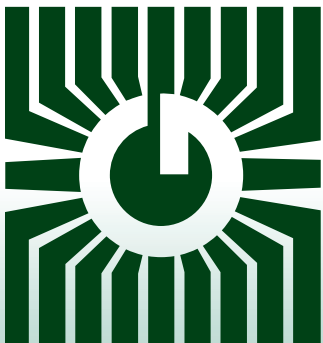
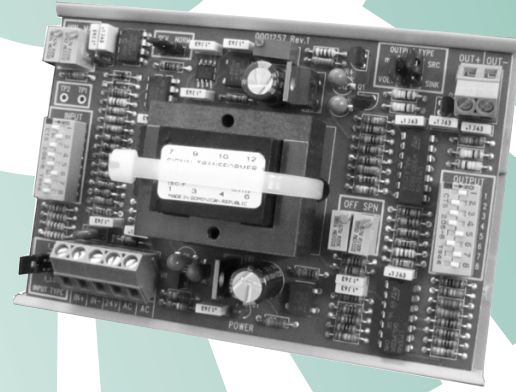


# GREYSTONE ENERGY SYSTEMS INC



## 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 transducer 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:

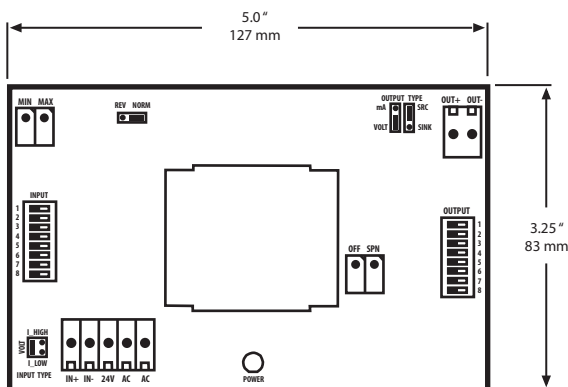
### General Specifications

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)

## 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



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RoHS  
COMPLIANT



*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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