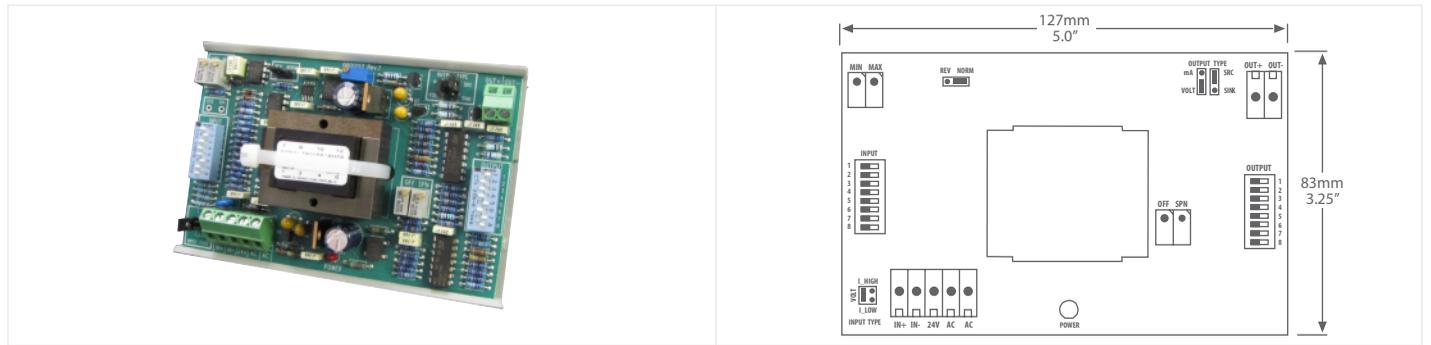




ANALOG ISOLATION MODULE



GT-AI MODEL

APPLICATIONS

- Isolated signal conversion or reversal
- Eliminate ground loop wiring problems
- Variable frequency motor drive signal isolation
- Electrical actuator isolation
- Easily interface recorders, data logger, 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 has 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.

ORDERING INFORMATION

GT-AI

SPECIFICATIONS

POWER SUPPLY	24 Vac \pm 10%
CONSUMPTION	150 mA maximum
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 127mm L x 83mm W x 47mm H (5.0" x 3.25" x 1.85")
WEIGHT	285g (10oz)
POWER OUTPUT	Regulated Power Output: 24 Vdc \pm 10% @ 30 mA maximum (use to power an external sensor)
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 K Ω
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 K Ω 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: 5 K Ω minimum
PRESENT CURRENT RANGE	0-20 and 4-20 mA
PRESET CURRENT OFFSET	0, 4, and 8 mA
PRESET CURRENT SPANS	4-20 mA
CURRENT IMPEDANCE	750 Ω
CURRENT SIGNAL TYPE	Source or Sink (jumper selectable)
SIGNAL DIRECTION	Normal/Reversible via single jumper
ACCURACY	\pm 1% typical
COUNTRY OF ORIGIN	Canada

NOTE: Greystone Energy Systems, Inc. reserves the right to make design modifications without prior notice.