



## ANALOG INPUT WITH OPTICAL ISOLATION TO ANALOG OUTPUT

GT-AI Series

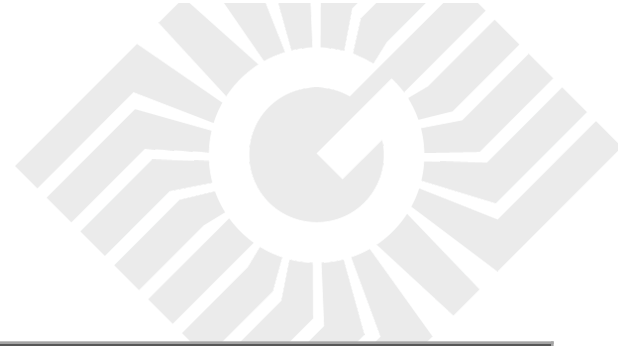
The GT-AI analog isolation module is a 3 way isolating analog signal re-scaling module with one input/output channel. It will accept one analog voltage or current input signal, isolate it and re-scale it to another voltage or current output signal. The I/O signals have several pre-calibrated, fixed ranges 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.

### PRODUCT HIGHLIGHTS

- Input/Output signal isolation
- Field selectable input/output ranges
- Direct or reverse acting
- Regulated power supply output
- Compact and economical
- Snap track mounted



## SPECIFICATIONS

DESCRIPTION	ENGINEERING SPEC
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 47mm W (5.0" x 3.25")
WEIGHT	285g (10oz)
POWER OUTPUT	<b>Regulated Power Output:</b> 24 Vdc $\pm 10\%$ @ 30 mA maximum (use to power an external sensor)
INPUT SIGNAL	<b>Preset Voltage Range:</b> 0-1, 0-5, 0-10, 0-15, 0-20, 1-5, 2-10, 3-15, and 4-20 Vdc <b>Adjustable Voltage Offset:</b> 0-20 Vdc <b>Adjustable Voltage Span:</b> 1-20 Vdc <b>Voltage Impedance:</b> $>10\text{ K}\Omega$
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 $\Omega$ (1 $\text{K}\Omega$ for 0-1 mA range)
OUTPUT SIGNAL	<b>Preset Voltage Range:</b> 0-5, 1-5, 0-10, and 0-20 Vdc <b>Preset Voltage Offset:</b> 0, 1, and 2 Vdc <b>Preset Voltage Spans:</b> 1, 3, 4, 5, 6, 7, 8, and 10 Vdc <b>Adjustable Voltage Offset:</b> 0-10 Vdc <b>Adjustable Voltage Span:</b> 1-20 Vdc <b>Voltage Impedance:</b> $>10\text{ K}\Omega$
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 $\Omega$
CURRENT SIGNAL TYPE	Source or Sink (jumper selectable)
SIGNAL DIRECTION	Normal/Reversible via single jumper
ACCURACY	$\pm 1\%$ typical
COUNTRY OF ORIGIN	Canada