



ANALOG RESISTANCE MODULE



GT-ARES MODEL

APPLICATIONS

- Electrical actuator control
- Electronic potentiometer
- Resistive sensor simulation

PRODUCT DESCRIPTION

The GT-ARES analog to resistance module is an interface that accepts a DIP switch selectable analog input (voltage or current) and uses that signal to proportionally control a variable resistance output. The device output simulates a 3 wire slide wire or rotary potentiometer and has both ends of the potentiometer and the wiper available on the terminal connector. The resistive output is electrically isolated from the input signal.

The GT-ARES includes a regulated power output that can be used to power a current-loop transducer and also features a failsafe input that will connect to the output terminals in case of a power loss or for manual output control. There is an LED power indicator and manual override jumper for failsafe operation.

SPECIFICATIONS

POWER SUPPLY	23 to 30 Vdc, 22 to 27 Vac, half-wave rectified
CONSUMPTION	110 mA maximum
INPUT VOLTAGE EFFECT	Negligible over specified operating range
PROTECTION CIRCUITRY	Reverse voltage protected, overvoltage protected
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 back mounting 117mm L x 83mm W (4.6" x 3.25")
WEIGHT	131 gm (4.6oz)
POWER OUTPUT	Regulated Power: 20 Vdc ±10% @ 30 mA maximum, output to power an external sensor Power Output Drive: 30 mA maximum
INPUT SIGNAL	Voltage Range: 0-5, 0-10, 0-15, 1-5, 2-10, or 3-15 Vdc (switch selectable) Voltage Impedance: >10 KΩ Current Range: 0 to 20 or 4-20 mA (switch selectable) Current Impedance: 250 Ω
OUTPUT SIGNAL	Signal Type: Simulated potentiometer resistance (3 wire) Resolution: 256 steps (no wrap around) Resistance Accuracy: ±5% Standard Values: 0-135 Ω, 4.5 watts 0-270 Ω, 3.0 watts 0-500 Ω, 3.0 watts 0-1000 Ω, 1.0 watts
COUNTRY OF ORIGIN	Canada

ORDERING

PRODUCT	GT-ARES	Analog Resistance Module
STANDARD VALUE	135	0-135 Ω, 4.5 watts
	270	0-270 Ω, 3.0 watts
	500	0-500 Ω, 3.0 watts
	1000	0-1000 Ω, 1.0 watts

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

PART NUMBER

GT-ARES