





ANALOG RELAY MODULE

GT-ARES Series

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.

PRODUCT HIGHLIGHTS

* Field selectable input ranges
* Several resistance output ranges
* LED power indicator
* Regulated 20 Vdc power output
* Compact and economical
* Snap track mounted

SPECIFICATIONS



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| DESCRIPTION | ENGINEERING SPEC |
| 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 CIRUITRY | Reverse voltage protected, overvoltage protected |
| OPERATION 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  99mm L x 82.5mm W (2.4” x 3.25”) |
| WEIGHT | 131g (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 mA (switch selectable)  **Current Impedance:** 250 Ω |
| OUTPUT 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, 30 watts  0-1000 Ω, 1.0 watts |
| COUNTRY OF ORIGIN | Canada |