

FEATURES

- Solid State Reliability in a very small package
- Two Wire Loop Powered 4-20 mA output
- Seven (7) Selectable Resistance Input Ranges plus One (1) Adjustable Resistance Input Range (three ranges available)

APPLICATIONS

- Convert feedback pot resistance on actuators to current signal
- Photocell Transmitter


PRODUCT DESCRIPTION

The RTI converts a 3-wire resistance signal to an analog output, using current loop power (two wire). The RTI is reverse polarity protected and offers linear tracking of a 3-wire resistance input against the standard output signal of a 4 to 20

milliamp (current source). Its small size and self-powered feature lends its use to remote mounting for feedback signals from a valve or damper motor indicating its position.

ORDERING INFORMATION

Specify: **RTI-1** Seven (7) Selectable Input Ranges **plus** Adjustable 0 to (100 to 500) ohm range
RTI-2 Seven (7) Selectable Input Ranges **plus** Adjustable 0 to (500 to 2200) ohm range
RTI-3 Seven (7) Selectable Input Ranges **plus** Adjustable 0 to (2200 to 5000) ohm range
 (Pick model with closest to desired high range), _____ with **ENC1** Enclosure?

SPECIFICATIONS
Electrical Requirements
Power Supply

Supply voltage	24 VDC +/-10%
Input Type	3-wire potentiometer only
Input Resistance Ranges	All RTI models have seven fixed ranges: 0-100, 0-135, 0-220, 0-500, 0-1000, 0-2000, and 0-2800 ohms plus the following: RTI-1 - the 8th adjustable input range: 0 to (100 to 500) ohms RTI-2 - the 8th adjustable input range: 0 to (500 to 2200) ohms RTI-3 - the 8th adjustable input range: 0 to (2200 to 5000) ohms
Current Draw	Minimum 4 mA (wiper to MIN), maximum 20 mA (wiper to MAX) Output Signal of 4 to 20 mA
Accuracy	+/- 1% of the adjustable 16 mA span, +/- 2% of the fixed 16 mA span

Mechanical Requirements

Connections	Terminal type: 45° Captive screw, moving clamp design in nickel plated copper alloy, maximum of one (1) 14 AWG wire.
Mounting	2.375" length of 2.25" snap track (ENC1 optional)
Weight	2 oz.
Dimensions	2.25" W x 1.8" L x 1.0" H.

Environmental Requirements

Operating Temperature	32 to 120 deg. F
Storage Temperature	-20 to 150 deg. F
Operating Humidity	10 to 95% non-condensing

Specifications may change without notice to improve product design or function.