

1/16 DIN ETR® TEMPERATURE CONTROLS

INPUT

- Type J or K Thermocouple with cold junction compensation
- RTD, PT100 ohm DIN or JIS calibration, 2 or 3 wire
- Upscale input break protection on open sensor

OUTPUT

- SPDT 3 AMP relay – 240V maximum load
- 3-32VDC to drive external solid state relay

CONTROL MODE

- Time proportional
Proportional band fixed at 2.2% of scale
Standard relay cycle time, 20 seconds
Standard SSR cycle time, 1 second
On ETR-905, manual reset is 2.6% of scale, externally adjustable
- On/Off
Hysteresis: 0.5% of scale symmetrically above and below set point

INDICATION/SET POINT METHOD

- **ETR 901**–Non-indicating; Analog potentiometer set point
- **ETR-902**–Indication of process temperature by “high” and “low” deviation lamps will blink when the process temperature is greater than 5% (of scale range) from the set point. When the actual process temperature is within 1 - 5% of the set point the deviation lamps will be solid. Both lamps will be off when the actual process temperature is within 1% of set point. Analog potentiometer set point.
- **ETR-905**–1/2” red LED temperature display; Digital set point.

Set Point Accuracy: ETR-901: ± 1% of scale
ETR-902: ± 1% of scale
ETR-905: least significant digit

Set Point Resolution: ETR-901: ± 0.2% of scale
ETR-902: ± 0.2% of scale
ETR-905: least significant digit

Display Accuracy: ± 0.1%, ± 2°C for thermocouple
± 0.3°C for RTD

Wiring: Screw terminal strip on rear of unit

Common Mode Rejection: 120dB

Normal Mode Rejection: 60dB

Input Impedance: 10M ohms

Operating Conditions for Rated Accuracy:

14 - 122°F (-10 - 50°C), 0 - 90% RH
(non-condensing)

Dielectric Strength: 2000VAC, 50/60Hz, 1 minute

Vibration: 5 - 55Hz, amplitude, 1.0mm

Shock: 660 ft/S² (20g)

Supply Voltage: ETR-905; 90 - 264VAC, 50/60Hz,
24VAC/DC optional
ETR-901 and ETR-902; 120 or
240VAC, 50/60Hz, ± 15%, *NOT* field
selectable

Size: 1 7/8" x 1 7/8" x 3 3/4" (48mm x 48mm 94mm)

Panel Cut-out: 1 25/32" x 1 25/32" (45mm x 45mm)

Depth Behind Panel: 3 3/8" (86mm)

Weight: 7 oz. (200 grams)