



FEATURES

- Build-in Laser Trim ASIC
- Easy to change range
- ON-OFF or time proportional selectable
- Compact, only 65mm in depth
- Wide selection of control output option
- Wide selection of ranges
- Sensor break protection
- Alarm option
- Low Cost
- Safety: UL, CSA
- EMC, LVD: CE

SPECIFICATIONS

INPUT

Thermocouple (TIC) : Type J, K
RTD : 3-wires PT 100 ohms, DIN or JIS
Range : See ordering information
Accuracy : $\pm 2\%$ of span (BTC-703), $\pm 1\%$ of span (BTC-705)
cold Junction Compensation : $\pm 0.1^\circ\text{C}/1^\circ\text{C}$
Rejection of RTD Lead Resistance =
($0.1^\circ\text{C} - 0.025\%$ of PV reading) /ohm
Sensor Break Protection : Upscale
External Resistance : 100 ohms max.
Normal Mode Rejection : 60 dB
Common Mode Rejection : 120 dB
Sample Rate : 3 times / second

CONTROL

Proportional Band : 2.2% of Span.
ON-OFF Hysteresis : 1% of Span
Cycle Time : 20 seconds for relay output, 1 second-for pulsed
voltage output, 0.02 second for linear current or
voltage output.
Control Action : Reverse action

OUTPUT

Control: Relay : 5A / 240V max. resistive load
Pulsed voltage : 20mA / 32VDC max.
Current : 4-20mA, 0-20mA, max, load 500 ohms
Voltage : 0- 10V, min. load 500k ohms
Alarm : Relay output, 2A / 240VAC max. resistive load

ADJUSTMENT

Set point : 3-digit or 4-digit switch
Alarm : Deviation alarm, adjustable f 10% of span
Manual Reset : Adjustable 2.6% of span
Resolution of set point : 1 LSD (Least Significant Digit)
Accuracy of set point : $\pm 1\%$ of span
Repeatability of set point : ± 1 LSD

INDICATION

Process Indicator : 10mm red LED display
Status Indicator : ON (red) LED Lamp
Alarm Indicator : ON (red) LED Lamp

POWER

Rating : 90-240VAC, 50 / 60Hz
Consumption : Less than 5VA

ENVIRONMENTAL & PHYSICAL

Operating Temperature : $0-50^\circ\text{C}$
Humidity : 0-90% RH (non-condensing)
Insulation : 20M ohms min. (500VDC)
Breakdown : AC 2006V, 50/60Hz, 1 minute
Vibration : 10-55Hz. amplitude 1 mm
Shock : 200M/S² (20g)
Weight : 210 grams
Dimension : 72 (W) X 72 (H) X 65mm (depth behind panel)
Panel cutout : 68 X 68mm