ETR-9040 1/16 DIN MICROPROCESSOR BASED LIMIT CONTROL

INPUT

Display in temperature or engineering units

Thermocouple: J, K, T, E, B, R, S, L, N (selectable)

RTD: PT 100 ohm DIN or JIS, 2 or 3 wire

Linear: 0 - 60mV

Voltage: 0 - 1V, 0 - 10V

Current: 0 - 20mA

CONTROL FEATURES

Can be configured as High Limit, Low Limit or High and Low Limit

Temperature Range: Selectable

Set Point: Full Range Selectable

Sensor Break Protection: Status of control output and alarm can be configured

PRIMARY OUTPUT

Single output with optional independent secondary output

Relay: Form C 2A/240V maximum resistive load

Pulsed Voltage: 5V/30mA to drive SSR

Triac: 1A/240VAC

POWER

Supply Voltage: 90 - 264VAC, 50/60Hz
11 - 26VAC/VDC optional

Consumption: Less than 10VA

Data Retention: 10 years (EEPROM)

INDICATION

Display: 4 Digit .4" red LED, 4 digit keypad, Selectable decimal placement, 5 LED status indicators

°F/°C: Selectable - LED indicators

Sample Rate: 5 samples / second

SECONDARY OUTPUTS

2A/240VAC Form A Relay
Pulsed Voltage to drive SSR, 5V/30mA
Triac Output, 1A/240VAC
Isolated 20V/25mA DC Power Supply
Isolated 12V/40mA DC Power Supply
Isolated 5V/80mA DC Power Supply
RS-485 Communications Output
Event Input

SPECIFICATIONS

Accuracy: ±0.1% of span

Control Stability: ±0.15% (typical) of full scale

Cold Junction Compensation: ±1.5mV/°C

External Resistance: Maximum 100 ohms

Common Mode Rejection: 120 dB

Normal Mode Rejection: 55dB

Input Impedance: 10M ohms

Operating Temperature for rated Accuracy: 14 - 122°F (-10 - 50°C)

Humidity: 0 - 90% RH (non-condensing)

Insulation: 20M ohm minimum (500VDC)

Breakdown: 2000VAC, 50/60Hz, 1 minute

Vibration: 10 -55 Hz amplitude 1 mm

Shock: 200m/s² (20 grams)

Dimensions: H- 1 7/8" (48mm)
W- 1 7/8" (48mm)
D- 3 3/4" (94mm)
Depth behind panel- 3 3/8" (86mm)
Panel cutout- 1 25/32" x 1 25/32" (45mm x 45mm)

Weight: 5½ oz. (150 grams)