

TECHNICAL SPECIFICATIONS

OPERATING LIMITS

| | |
|-----------------------------|---|
| Ambient Temperature | 32°F to 131°F (0°C to 55°C) |
| Relative Humidity Tolerance | 90%, non-condensing |
| Power | 100-250 Vac 125 to 300 Vdc 24 Vac/dc optional |
| Power Consumption | Less than 6 VA (instrument) |

PERFORMANCE

| | |
|-----------------------|---|
| Accuracy | ±0.20% of full scale (±0.10% typical), ±1 digit |
| Setpoint Resolution | 1.0 count / 0.1 count |
| Repeatability | ±1.0 count |
| Temperature Stability | 5 mV/°C (maximum) |
| TC Cold-End Tracking | 0.05°C/°C ambient |
| Noise Rejection | 100 dB common mode 70 dB series mode |
| Process Sampling | 10 Hz (100 ms) |
| Digital Filtering | Adjustable 0.1 to 10 |

CONTROL CHARACTERISTICS

| | |
|--------------------|--|
| Setpoint Limits | Span of Sensor |
| Alarms | Adjustable for high/low; selectable for process or deviation |
| Rate | 0 to 900 sec |
| Reset | 0 to 2400 sec |
| Cycle Time | 0=200ms; 0.2 to 120 sec |
| Gain | 0 to 400 |
| Gain Ratio | 0 to 2.0 (in 0.1 increments) |
| Control Hysteresis | 1 to 100 (on/off configuration) |
| Spread (Output 2) | 1 to 100 (above setpoint) |
| Ramp to Setpoint | 1 to 100 min |
| Auto-Tune | Operator initiated from front panel |
| Manual Control | Operator initiated from front panel |

INPUTS

| | |
|--------------|--|
| Thermocouple | B, C, E, J, K, N, NNM, R, S, T, Platinel II Maximum lead resistance 100 ohms for rated accuracy |
| RTD | Platinum 2- and 3-wire, 100 ohms at 0°C, (DIN curve standard 0.00385) |
| Linear | 0-50 mV/10-50 mV, 0-20 mA/4-20 mA, 0-10 mV/0-50 mV, 0-100 mV, 0-1 V/0-5 V, 0-10 V, 1-5 V |

OUTPUTS

| | |
|---|--|
| B | 5 A/3 A (120/240 Vac), normally open |
| E | 0-20 mA |
| F | 4-20 mA, full output to load 500 ohm impedance, max. |
| G | 4-20 mA, full output to load 800 ohm impedance, max. |
| P | 20 Vdc or 35 mA |
| S | 20 Vdc or 17 mA |
| T | 1 A, Solid-state relay |

OUTPUTS (continued)

| | |
|---|--|
| V | 0 to 5 Vdc |
| X | 0 to 10 Vdc |
| Y | 5 A/3 A (120/240 Vac), normal closed relay |

ALARM TYPE

| | |
|---|---|
| B | 5 A/3 A (120/240 Vac), mechanical relay |
| S | 24 V, 20 mA |
| T | SSR, NC, 24-240 Vac |

MECHANICAL CHARACTERISTICS

| | |
|--------------------|--|
| Display | Dual, 4-digit 0.36" (9.2 mm) LED display Process Value: Orange Setpoint Value: Green |
| Numeric Range | -1999 to 9999 |
| Front-Panel Rating | NEMA 4X (IP65) |
| Front-Panel Cutout | 3.622" x 3.622" (92mm x 92mm) |
| Connections | Screw Terminals |

Specifications subject to change without notice.

