



Features:

- 4 Digit 7 Segment LED
- LED Status Indicator: Alarm ON
- TC / RTD / Analog Inputs
- °C / °F Selectable
- 4 Alarm Outputs
- Sensor Supply
- Optional Features
 - Retransmission Output
 - RS485 Communication

Size: 1/8 DIN, 48mm x 96mm

Certifications:

Technical Specifications

Display

| | |
|----------------|--|
| Digits | 4 digit 7 Segment LED Height of Display 0.56" |
| LED Indication | Alarm ON (2 Nos) |

Input Specifications

| | |
|---------------------|--|
| Inputs | Thermocouple (J,K,T,R,S,C,E,B,N,L,U,W, Platinel II), RTD (Pt100, Pt100) DC Analog Inputs (-5 to 56mV, 0 to 100mV, 0 to 10V, 0/4 to 20mA) |
| Resolution | 1 / 0.1° for TC/RTD only (Fixed 1° resolution for R & S type TC) Decimal point position selectable: 1/0.1/0.01/0.001 for analog input |
| Temperature Unit | °C / °F selectable |
| Indication Accuracy | For TC inputs: 0.25% of F.S. ±1° For R & S inputs: 0.5% of F.S. ±2° (20 min of warm up time for TC inputs) For RTD inputs: 0.1% of F.S. ±1° For Analog inputs: ±0.5% of F.S., ± 1 digit (F.S. = Full Scale) |

Output Specifications

| | |
|---------------------------|-----------------------------------|
| Alarm | |
| Contact Rating (SPST) | 5A @ 250V AC or 24V DC, resistive |
| Retransmission (Optional) | 4 to 20 mA DC, 0 to 10V DC |
| Sensor Supply | 24V DC, 30 mA |

Supply Voltage

| | |
|-------------------|---|
| Supply Voltage | 85 to 270V AC/DC (50 / 60Hz) Optional - 24V DC, ±10% |
| Power Consumption | 6VA max @230V AC |

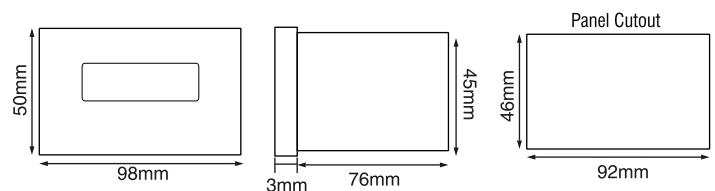
Environmental Specifications

| | |
|---------------------------|--|
| Temperature | Operating: 0 to 50°C (32 to 122°F) Storage: -20 to 75°C (-4 to 167°F) |
| Humidity (non-condensing) | 95% RH |
| Weight | 260 gms |
| Protection Level | IP65 for faceplate |

Compliance

| |
|--|
| IEC/EN 61326 (EMI/EMC) |
| IEC/EN 61010 Revision3 2010 Edition (Safety) |
| UL 61010 Revision3 2010 Edition (Safety) |

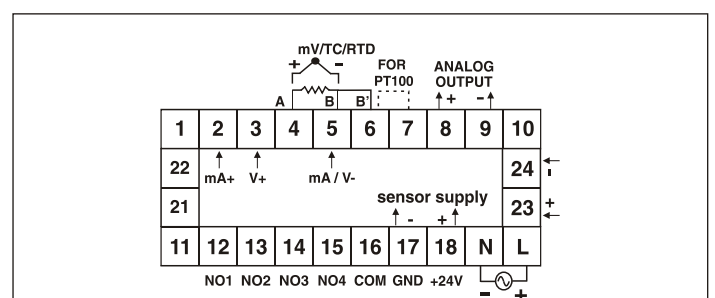
Dimensions



Mounting Accessories (Supplied with units)

| |
|---------------------------------|
| Clamp side with screw assembled |
|---------------------------------|

Terminal Connections



Cable Size (AWG): 16-13 ; Stud Hole for Lug (inch): 0.137 ; Tightening Torque (Lb-inch): 7

Cable Size (mm²): 1.5-2.5 ; Stud Hole for Lug (mm): 3.5 ; Tightening Torque (N-m): 0.8

Optional Specifications #2:

| SERIAL COMMUNICATION | |
|-----------------------|---|
| Interface standard | RS485 |
| Communication address | 1 to 99, maximum of 32 units per line |
| Transmission mode | Half duplex |
| Transmission protocol | MODBUS RTU |
| Transmission distance | 500 m maximum |
| Transmission speed | 9600, 4800, 2400, 1200, 600, 300 bits/sec |

#2 Optional specifications depend on the type of unit ordered.

Input Ranges (For TC/RTD input)


| Resolution | | Ranges | |
|-------------|----|--------------|-------------|
| | | 1 | 0.1 |
| Sensor Type | °C | | |
| | °F | | |
| Pt100 | °C | -150 to 850 | -150 to 850 |
| | °F | -238 to 1562 | -199 to 999 |
| J | °C | -199 to 750 | -199 to 750 |
| | °F | -328 to 1382 | -199 to 999 |
| K | °C | -199 to 1350 | -199 to 999 |
| | °F | -328 to 2462 | -199 to 999 |
| T | °C | -199 to 400 | -199 to 400 |
| | °F | -328 to 750 | -199 to 750 |
| R & S | °C | 0 to 1750 | N/A |
| | °F | 32 to 3182 | N/A |

Ordering Information

This product is CE certified. Also available with UL marking against order. Please order as per the requirement.

| Part no. | Retransmission Output | Communication | Supply Voltage |
|------------------|-----------------------|---------------|-----------------|
| PIC1000N-A | --- | --- | 85 - 270V AC/DC |
| PIC1000N-A-24V | --- | --- | 24V DC |
| PIC1000N-D-2 | 4-20mA | --- | 85 - 270V AC/DC |
| PIC1000N-D-2-24V | 4-20mA | --- | 24V DC |
| PIC1000N-E-1 | 0-20mA | RS485 | 85 - 270V AC/DC |
| PIC1000N-E-1-24V | 0-20mA | RS485 | 24V DC |
| PIC1000N-E-2 | 4-20mA | RS485 | 85 - 270V AC/DC |
| PIC1000N-E-2-24V | 4-20mA | RS485 | 24V DC |
| PIC1000N-E-3 | 0-5V | RS485 | 85 - 270V AC/DC |
| PIC1000N-E-3-24V | 0-5V | RS485 | 24V DC |
| PIC1000N-E-4 | 0-10V | RS485 | 85 - 270V AC/DC |
| PIC1000N-E-4-24V | 0-10V | RS485 | 24V DC |

UL approved part numbers

| Part no. | Retransmission Output | Communication | Supply Voltage | Certification |
|------------------|-----------------------|---------------|-----------------|--|
| PIC1000N-A | --- | --- | 85 - 270V AC/DC | CE  |
| PIC1000N-A-24V | --- | --- | 24V DC | CE  |
| PIC1000N-D-2 | 4-20mA | --- | 85 - 270V AC/DC | CE  |
| PIC1000N-D-2-24V | 4-20mA | --- | 24V DC | CE  |
| PIC1000N-E-1 | 0-20mA | RS485 | 85 - 270V AC/DC | CE  |
| PIC1000N-E-1-24V | 0-20mA | RS485 | 24V DC | CE  |
| PIC1000N-E-2 | 4-20mA | RS485 | 85 - 270V AC/DC | CE  |
| PIC1000N-E-2-24V | 4-20mA | RS485 | 24V DC | CE  |
| PIC1000N-E-3 | 0-5V | RS485 | 85 - 270V AC/DC | CE  |
| PIC1000N-E-3-24V | 0-5V | RS485 | 24V DC | CE  |
| PIC1000N-E-4 | 0-10V | RS485 | 85 - 270V AC/DC | CE  |
| PIC1000N-E-4-24V | 0-10V | RS485 | 24V DC | CE  |