


## Features:

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

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

**Certifications:** CE cULus

## Technical Specifications

### Display

| | |
|---|---|
| Digits | 4 digit 7 Segment LED<br>Height of Display 0.56" |
| LED Indications | Alarm ON (2 Nos) |

### Input Specifications

| | |
|---|---|
| Inputs | Thermocouple (J,K,T,R,S)<br>RTD (Pt100)<br>DC Analog Inputs (-5 to 56mV, 0 to 10V, 0/4 to 20mA) |
| Resolution | 1 / 0.1° for TC/RTD only<br>( Fixed 1° resolution for R & S type TC)<br>Decimal point position selectable:<br>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°<br>For R & S inputs: 0.5% of F.S. ±2°<br>(20 min of warm up time for TC inputs)<br>For RTD inputs: 0.1% of F.S. ±1°<br>For Analog inputs: ±0.5% of F.S., ± 1 digit<br>(F.S. = Full Scale) |

### Output Specifications

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

### Functional Specifications:

| | |
|---|---|
| Alarms | 2 |
| Alarm Modes | High alarm, Low alarm, Band, Fail output and Fault diagnosis |
| Hysteresis | 0.1 to 99.9° |
| Annunciator | Programmable |
| Reset Action | Automatic or Latched |

### Supply Voltage

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

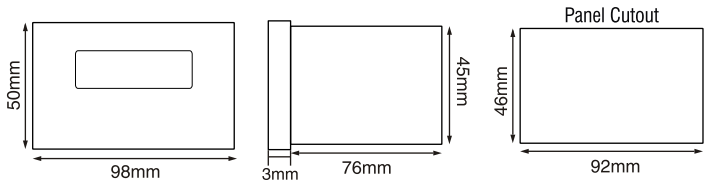
### Environmental Specifications

| | |
|---|---|
| Temperature | Operating: 0 to 50°C (32 to 122°F)<br>Storage: -20 to 75°C (-4 to 167°F) |
| Humidity (non-condensing) | 95% RH |
| Weight | 240 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)

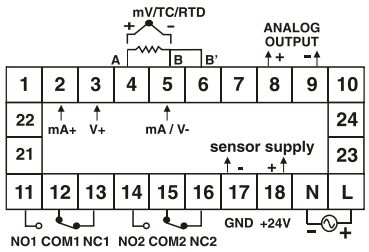
### Dimensions




**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

### Input Ranges (For TC/RTD input)

| Sensor Type \ Resolution | | Ranges | |
|---|---|---|---|
| | | 1 | 0.1 |
| 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 | Alarm Output | Supply Voltage |
|---|---|---|---|
| PIC152N-A | --- | 2 Alarms | 85 - 270V AC/DC |
| PIC152N-A-24V | --- | 2 Alarms | 24V DC |
| PIC152N-B-1 | 0-20mA DC | 2 Alarms | 85 - 270V AC/DC |
| PIC152N-B-1-24V | 0-20mA DC | 2 Alarms | 24V DC |
| PIC152N-B-2 | 4-20mA DC | 2 Alarms | 85 - 270V AC/DC |
| PIC152N-B-2-24V | 4-20mA DC | 2 Alarms | 24V DC |
| PIC152N-B-3 | 0-5V DC | 2 Alarms | 85 - 270V AC/DC |
| PIC152N-B-3-24V | 0-5V DC | 2 Alarms | 24V DC |
| PIC152N-B-4 | 0-10V DC | 2 Alarms | 85 - 270V AC/DC |
| PIC152N-B-4-24V | 0-10V DC | 2 Alarms | 24V DC |

### UL approved part numbers

| Part No. | Retrans-mission Output | Alarm Output | Supply Voltage | Certification |
|---|---|---|---|---|
| PIC152N-A-CU | --- | 2 Alarms | 85 - 270V AC/DC | CE cULus |
| PIC152N-A-24V-CU | --- | 2 Alarms | 24V DC | CE cULus |
| PIC152N-B-1-CU | 0-20mA DC | 2 Alarms | 85 - 270V AC/DC | CE cULus |
| PIC152N-B-1-24V-CU | 0-20mA DC | 2 Alarms | 24V DC | CE cULus |
| PIC152N-B-2-CU | 4-20mA DC | 2 Alarms | 85 - 270V AC/DC | CE cULus |
| PIC152N-B-2-24V-CU | 4-20mA DC | 2 Alarms | 24V DC | CE cULus |
| PIC152N-B-3-CU | 0-5V DC | 2 Alarms | 85 - 270V AC/DC | CE cULus |
| PIC152N-B-3-24V-CU | 0-5V DC | 2 Alarms | 24V DC | CE cULus |
| PIC152N-B-4-CU | 0-10V DC | 2 Alarms | 85 - 270V AC/DC | CE cULus |
| PIC152N-B-4-24V-CU | 0-10V DC | 2 Alarms | 24V DC | CE cULus |