




Features:

- 3 Digit 7 Segment LED
- LED Status Indicator: Setpoint Lock, Defrost, Relay ON, Alarm ON
- °C/°F Selectable
- Defrost Management
- High & Low Temperature Alarm
- Up to 20A Relay Output
- Compact Size
- Easy to use

Size: 36mm x 72mm

Certifications:  

Technical Specifications

Display

| | |
|-----------------|--|
| Digits | 3 digit 7 Segment LED |
| | Height of Display 0.4" |
| LED Indications | Set point lock, Defrost, Relay ON, Alarm |

Input Specifications

| | |
|---------------------|---|
| Inputs | NTC |
| Resolution | 1 / 0.1° |
| Setpoints | 1 |
| Indication Accuracy | ±0.25% of F.S. ±1°C (F.S. = Full Scale) |

Output Specifications

| | |
|-----------------|--|
| Outputs | 1 or 2 |
| Control | 1 |
| Contact Ratings | 10A @ 230V AC (SPDT) , resistive or 20A @ 230V AC (SPST) , resistive |
| Alarm Output | |
| Contact Rating | 5A @ 230V AC (SPST), resistive |
| SSR Drive | 12V DC, 10mA |

Functional Specifications

| | |
|---------------------------|---|
| Control Action | ON-OFF |
| Hysteresis | 0.1 to 9.9°C / °F |
| Alarm Modes | High Alarm, Low Alarm |
| Display Offset Adjustment | -19.9 to 20.0°C / °F |
| Restart Time Delay | Adjustable from 00 to 99 minutes |
| Relay Action | Heat & cool mode |
| Defrost Time | Programmable from 00 to 99 minutes |
| Defrost Frequency | Programmable from 00 to 99 (Hr/Min/Sec) |

Specifications for NTC Sensor

| | |
|--------------------|-----------------|
| Sensor Type | NTC probe |
| Thermistor Range | -40 to 100°C |
| Nominal Resistance | 10K ohms @ 25°C |

Supply Voltage

| | |
|-------------------|--|
| Supply Voltage | 85 to 270V AC/DC (50 / 60Hz) OPTIONAL - 24V AC/DC, ±10% |
| Power Consumption | 5VA max @230V AC |

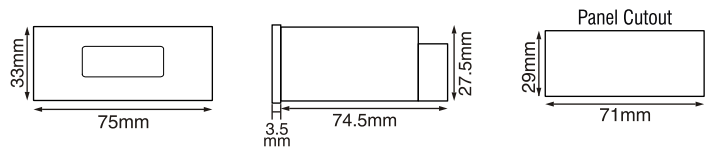
Environmental Specifications

| | |
|---------------------------|--|
| 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 | 110 g (0.242 lbs) |
| Protection Level | IP65 for faceplate |

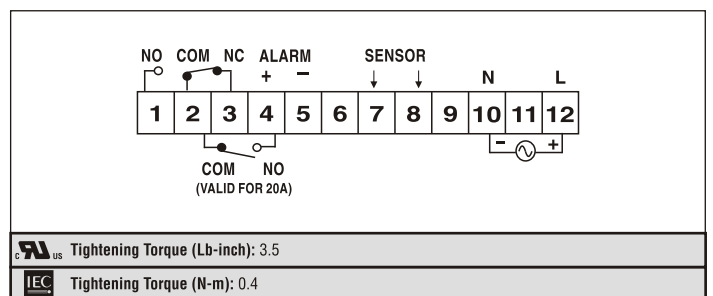
Compliance

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

Dimensions



Terminal Connections



 Tightening Torque (Lb-inch): 3.5

 Tightening Torque (N-m): 0.4

Sensor provided with product

| | |
|--|-------|
| NTC Sensor (see Specifications of NTC Sensor for details) | TSP04 |
|--|-------|

Ordering Information

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

| Part No. | Output | | Supply Voltage |
|-------------|----------------|--------------|------------------|
| | Control Output | Alarm Output | |
| CH403-1 | 10A Relay | 12V DC SSR | 85 to 270V AC/DC |
| CH403-2 | 20A Relay | - | 85 to 270V AC/DC |
| CH403-3 | 10A Relay | 5A Relay | 85 to 270V AC/DC |
| CH403-1-24V | 10A Relay | 12V DC SSR | 24V AC/DC |
| CH403-2-24V | 20A Relay | - | 24V AC/DC |
| CH403-3-24V | 10A Relay | 5A Relay | 24V AC/DC |







Accessory (Also available separately on request)

PROBE



| MODEL | Sensor type | Temperature range (°C) | Nominal Resistance |
|-------|-------------|------------------------|--------------------|
| TSP04 | NTC probe | -40 to +100 | 10 K ohms @ 25°C |

UL approved part numbers

| Part No. | Output | | Supply Voltage | Certification |
|----------------|----------------|--------------|------------------|--|
| | Control Output | Alarm Output | | |
| CH403-1-CU | 10A Relay | 12V DC SSR | 85 to 270V AC/DC | CE  |
| CH403-2-CU | 20A Relay | - | 85 to 270V AC/DC | CE  |
| CH403-3-CU | 10A Relay | 5A Relay | 85 to 270V AC/DC | CE  |
| CH403-1-24V-CU | 10A Relay | 12V DC SSR | 24V AC/DC | CE  |
| CH403-2-24V-CU | 20A Relay | - | 24V AC/DC | CE  |
| CH403-3-24V-CU | 10A Relay | 5A Relay | 24V AC/DC | CE  |