




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

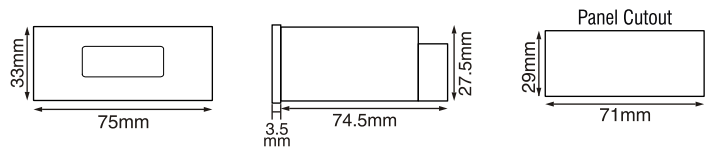
Environmental Specifications

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

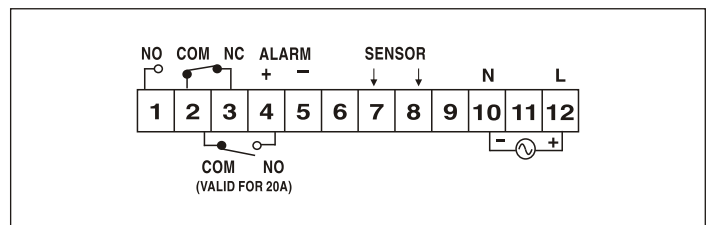
Compliance



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 