



36 x 72mm

Features :

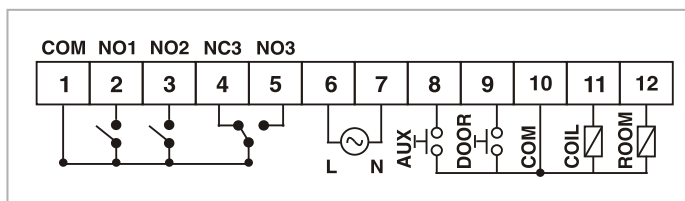
- ▶ 3 Digit, 7 Segment LED display
- ▶ Capacitive touch keypad
- ▶ 2 x NTC sensor probe
- ▶ Heating, Cooling & Evaporation
- ▶ Defrost management
- ▶ °C / °F selectable
- ▶ Door open alarm delay

Certifications :   IP65

Technical specifications

Display specifications	
Display	3 Digit, 7 Segment LED display
LED indication	Defrost, Relay ON, Alarm, Door Open, Time Delay
Input specifications	
Inputs	2 x NTC Probe
Resolution	0.1 / 1°C
Set point	2
Indication accuracy	±1°
Output specifications	
Contact rating	1) Defrost: SPST, 7A @ 250VAC / 30VDC 2) Fan: SPST, 7A @ 250VAC / 30VDC 3) Compressor: SPDT, 10A @ 250VAC / 30VDC
Functional specifications	
Control action	ON / OFF (With hysteresis programmable)
Hysteresis	1 to 20°C
Alarm modes	High temp alarm, Low temp alarm, Compressor fail alarm, Door open alarm, Sensor break alarm
Display offset adjustment	-10 to 10°C
Restart time delay	Programmable from 0 to 99 minutes
Relay action	Heating, Cooling & Evaporation
Defrost time	Programmable from 0 to 99 minutes
Defrost frequency	Programmable from 1 to 31 (Hr / min / sec)
NTC sensor specifications	
Sensor type	NTC probe
Thermistor range	-50 to 100°C
Nominal resistance	10KΩ @ 25°C
Auxiliary supply specifications	
Supply voltage	85 to 270V AC / DC, 50 / 60Hz
Power consumption	3VA maximum
Rated impulse voltage	2500V
Environment specifications	
Temperature	Operating : 0°C to 60°C ; Storage : -25°C to 60°C
Humidity (non - condensing)	95% RH
Mechanical specifications	
Mounting	Panel
Weight	129 gms

Terminal connections



Sensor provided with product

NTC Sensor
(See specification of
NTC sensor for details)

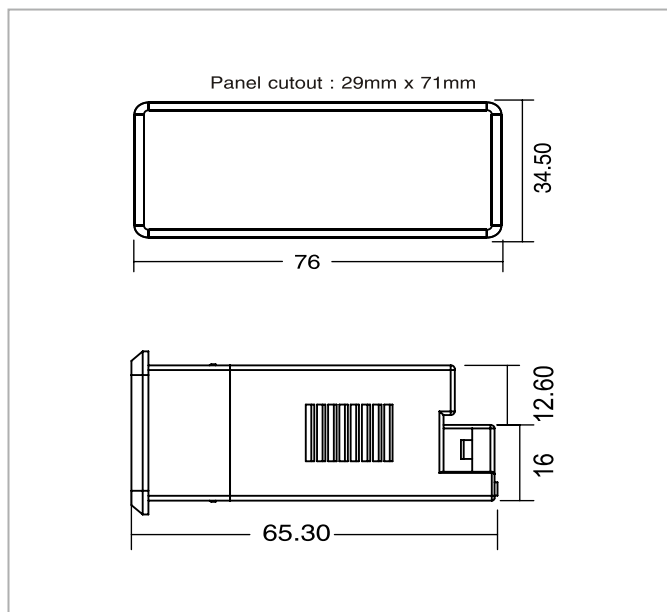
TSP04

Probe



Model	Sensor type	Temperature range (°C)	Nominal Resistance
TSP04	NTC probe	-40 to +100	10KΩ @ 25°C

Dimensions (All are in mm)



Compliance

Applicable EMI / EMC Standards		
Product Standard : IEC 61326-1		
Category		Standards Compliance
ESD Immunity	IEC 61000-4-2	Level III
Surge Immunity	IEC 61000-4-5	+/- 2 kV common mode, +/- 1 kV differential mode
Radiated Susceptibility	IEC 61000-4-3	Level III, 80 to 1000MHz Level II, 1.4GHz to 2GHz Level I, 2GHz to 2.7GHz
Conducted Susceptibility	IEC 61000-4-6	Level II
Voltage Dips and Interruptions	IEC 61000-4-11	Dips : 0% residual voltage / 1 cycle (Criteria B), 40% residual voltage / 10 cycles 50Hz / 12 cycles 60Hz (Criteria C) 70% residual voltage / 25 cycles 50Hz / 30 cycles 60Hz (Criteria C) Interruptions : 0% residual voltage / 250 cycles 50Hz / 300 cycles 60Hz (Criteria C)
Conducted Emission	CISPR-11	
Radiated Emission	CISPR-11	
Electrical Fast Transient	IEC 61000-4-4	Level III

Ordering information

Product Code	Output 1	Output 2	Output 3	Supply Voltage	Certification
CH403C-4-NTC	RELAY (7A)	RELAY (7A)	RELAY (10A)	85 to 270V AC / DC	CE RoHS IP65