



36 x 72mm

Features :

- 3 Digits, 7 Segment LED single white display
- Capacitive touch keypad
- LED status indicator : Set point lock, Defrost, Relay ON
- °C / °F selectable
- Defrost management
- IDM applicable
- Compact size

Certifications :

Display specifications

Display	3 Digits 7 Segment LED single white display
LED indications	Set point lock, Defrost, Relay ON

Input specifications

Inputs	NTC
Resolution	1 / 0.1°
Setpoints	1
Indication accuracy	±1% of Full scale

Output specifications

Relay contact	SPDT 10A @ 250V AC
Special feature	IDM

Functional specifications

Control action	ON - OFF
Hysteresis	0.1 to 9.9
Display offset adjustment	-19.9 to 20.0
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 90°C
Nominal resistance	10K ohms @ 25°C

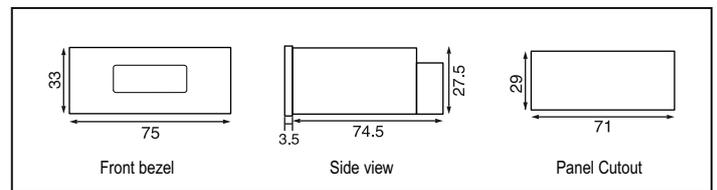
Auxiliary supply specifications

Supply voltage	230V AC @ (50 / 60Hz)
Power consumption	3 VA max @ 230V AC

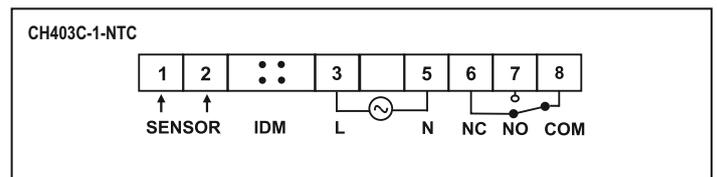
Environmental specifications

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	150 gms

Dimensions (All are in mm)



Terminal connections



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	Control Output	Supply Voltage	Certification
CH403C-1-NTC	RELAY	230V AC	CE

Sensor provided with product

NTC Sensor (see Specifications of NTC Sensor for details)	TSP04
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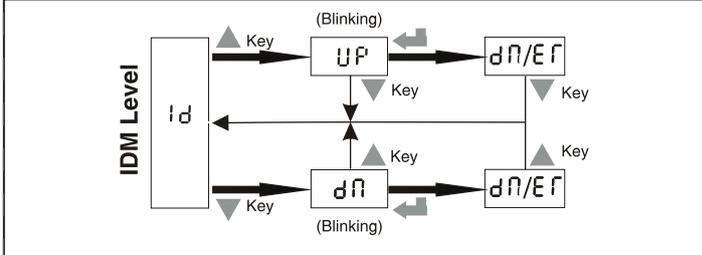
Accessory(Also available separately on request)

PROBE



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

Independent Downloader Module (IDM)



IDM Level	
Display	Parameter Description
Id	Independent Downloader Module
UP	Upload from product to IDM
dL	Download from IDM to product
dL	Operation Successful
Er	Operation unsuccessful