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# TEMPERATURE CONTROLLERS

"TOP CLASS PERFORMANCE"

"ALL IN ONE THERMOSTAT"

"SMALL IN DIMENSIONS"

#### **APPLICATION**

- Used to display and regulate TEMPERATURES and suitable for controlling heating or cooling units or systems.
- Modular design for easy panel mounting.

- Easy to use following the simple instructions in each unit.
  Suitable to limit the SET POINT temperature, setting minimum and maximum values.
- Adjustable DIFFERENTIAL (hysteresis) from 0,1°C to 20°C.
- Adjustable TIME DELAY between relay commutations: from 0 to 255 min.
- Adjustable DEFROST TIME duration (cold operation): from 0 to 255 min.
- Adjustable DEFROST FREQUENCY from 0 to 120 hours.
- In case of probe failure the unit displays a MALFUNCTION CODE and the DEFROST RELAY continues to operate for 255 min.

#### **SPECIFICATIONS**

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  Relay output: 13 A, 230 V, cos φ = 1.
  Temperature range: -50°C to +99°C (-58°F to +210°F).
  Controller accuracy:  $\pm$  1°C ( $\pm$ 1,8°F).
  Probe tolerance at 25°C:  $\pm$ 0,4°C ( $\pm$ 32,7°F).
  Standard PROBE-01/V2 included: 1,5 m length (5').
  Maximum probe temperature: 150°C (300°F).
  Ambient temperature range: +5°C to +50°C (+41°F to +122°F).
  Storage temperature: -30°C to +70°C (-22°F to +158°F).
  Maximum input power: 3 V A.
- Maximum input power: 3 V A.
- Resolution: 0,1°C (0,1°F). Dimensions: **75 mm x 33 mm** (2,96" x 1,30")
- Panel cut-out dimensions: **70,5 mm x 28,5 mm** (2,76" x 1,13").

# 1. CONTROLLERS FOR PANEL MOUNTING

TPM-1/V2 TPM-2/V3

**TSPM-2/V2** 

**TSPM-1/V3** 

TSPM-3

THERMOMETER: 230 V AC  $\pm$  10% (8 mA) THERMOMETER: 12 V DC / 24 V DC  $\pm$  20%

(88 mA) THERMOSTAT: 230 V AC ± 10% (9 mA) with

1 relay THERMOSTAT: 12 V DC / 24 V DC ± 20%

(182 mA) with 1 relay

**THERMOSTAT 3 DIGIT**: 230 V AC ± 10% (18 mA).

Decimal read out with 3 relays

Relay 1: Control (compressor) 16 A, 250 V,  $\cos \varphi = 1$ Relay 2: Defrost 8 A, 250 V,  $\cos \varphi = 1$ , SPDT

Relay 3: Fan 6 A, 250 V,  $\cos \varphi = 1$ , SPST Equipped with digital input and connector for parameter transfer and data communication.

## 2. CONTROLLERS FOR WALL MOUNTING

IDEM AS "CONTROLLERS FOR PANEL MOUNTING" EXCEPT FOR:

- Dimensions: 168 mm x 93 mm x 41 mm (6,7" x 3,6" x 1,5").
- Relay output: 16 A, 230 V, cos φ = 1.

**TSWM-2/V2 TWM-1/V2** 

**THERMOSTAT:** 230 V AC ± 10% (17 mA) **THERMOMETER:** 230 V AC ± 10% (15 mA)

### PROBES FOR ABOVE PANEL AND WALL MOUNTING CONTROLLERS

PROBE-01/V2

Probe NTC,

Length: 1,5 m (5,0') included with above

PROBE-03/V2

Probe NTC, Length: 3,0 m (10')

PROBE-06/V2

Probe NTC,

Length: 6,0 m (20')





