



# WM 100/150

## wall mount electronic thermostat

### WHAT IT IS

The WM 100/150 is an ON/OFF controller provided only of a selectable setpoint, it is useful for civil and industrial applications where wall mounting is requested.

### HOW IT IS MADE

- **Housing:** ABS plastic, autoestinguish
- **Dimensions:** front 75x108 mm (2.953x4.252"), depth 49 mm (2")
- **Mounting:** wall mount, with fixing screws
- **Connections:** screw terminal block (4 mm<sup>2</sup>; one wire each terminal only)
- **Display:** 10 mm LED (WM 150)
- **Setpoint:** adjustable by rotating knob with marked dial of an anatomic design
- **Differential:** adjustable from 0.5 to 10 °C
- **Output:** one (1) SPDT relay 8(3)A 250V AC
- **Input:** for PTC probe
- **Accuracy:** better than 1.5 °C
- **Power supply (depending on model):** 12 Vac/dc or 24, 110, 220 Vac, 50/60 Hz

### GENERAL DESCRIPTION

The WM 100/150 is an ON/OFF controller provided only of a selectable setpoint, it is useful for civil and industrial applications where wall mounting is requested.

The WM 100 does not have display, while WM 150 has a 3 digit display that indicates the value of the measured temperature.

Two leds for the WM 100 and one led for the WM 150, indicate the status of the relays.

WM 100/150 is supplied in 75x108 mm size for wall mounting.

### OPERATING

The WM 100/150 works as ON/OFF regulator.

The differential can be set with positive values ("cooling" function), to have the compressor stopped at the reaching of the setpoint, it will start again at the setpoint value, plus the differential.

With the differential at negative values ("heating" function) the relay status will change at the reaching of the setpoint, to return to the basic status at the setpoint value minus the differential.

A range of safety precautions permits a strong protection of the compressor from the close starts.

### INSTALLATION

The WM 100/150 is suitable for temperature regulation wherever wall mounting is fundamental.

Wall mounting can be easily carried out as the lid of the thermostat is click-connected to the body of the instrument.

### ELECTRICAL WIRING

The WM 100/150 is directly supplied by mains, can commutate up to 2 KW (800 VA inductive) and use an interchangeable probe as input sensor. The probe can be up to 100 m away from the instrument, and cover a range from -55 to 150 °C.

### TECHNICAL DATA

**Housing:** ABS plastic, autoestinguish.

**Dimensions:** front 75x108 mm (2.953x4.252"), depth 49 mm (2").

**Mounting:** wall mount, with fixing screws.

**Connections:** screw terminal block (4 mm<sup>2</sup>; one wire each terminal only).

**Display:** 10 mm LED (WM 150).

**Setpoint:** adjustable by rotating knob with marked dial of an anatomic design.

**Differential:** adjustable from 0,5 to 10 °C.  
**Operating temperature:** -5...65 °C; (23...149 °F).

**Storage temperature:** -30...75 °C (-22...167 °F).

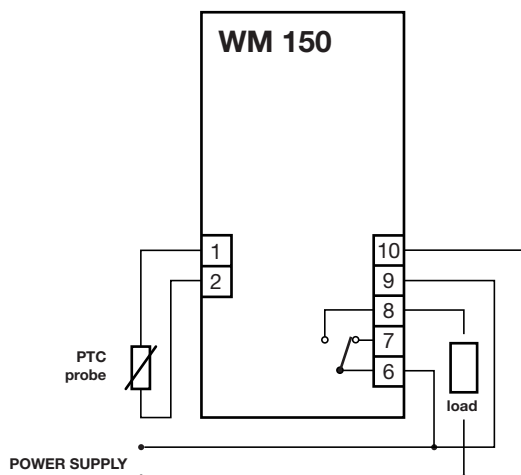
**Output:** one (1) SPDT relay 8(3)A 250V AC.

**Input:** for PTC probe.

**Accuracy:** better than 1.5 °C.

**Power supply (depending on model):** 12 Vac/dc ±15% or 24, 110, 220 Vac ±10% (50/60 Hz). Others on request.





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