

WM 500/550 rel. 9/96 ing

wall mount electronic humidistat

WHAT IT IS

The WM 500/550 is an ON/OFF controller provided only of a selectable setpoint.

HOW IT IS MADE

- **Housing:** ABS plastic, autoextinguish
- **Dimensions:** front 75x108 mm (2.953x4.252"), depth 49 mm (2")
- **Mounting:** wall mount, with fixing screws
- **Display:** 10 mm LED (WM 550 only)
- **Setpoint:** adjustable by rotating knob with marked dial of an anatomic design
- **Output:** one (1) SPDT relay 8(3)A 250V AC
- **Input:** for EWHS 28 probe
- **Accuracy:** better than 1% R.H.
- **Power supply (depending on model):** 12 Vac/dc or 24, 110, 220 Vac, 50/60 Hz

GENERAL DESCRIPTION

The WM 500/550 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 500 does not have display, while WM 550 has a 3 digit display that indicates the value of the measured humidity.

Two leds for the WM 500 and one led for the WM 550, indicate the status of the relays.

WM 500/550 is supplied in 75x108 mm size for wall mounting.

OPERATING

The WM 500/550 works as ON/OFF regulator.

The differential can be set with positive values ("dehumidification" 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 ("humidification" 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 500/550 is suitable for humidity regulation wherever wall mounting is fundamental.

Wall mounting can be easily carried out as the lid of the humidity controller is click-

connected to the body of the instrument.

ELECTRICAL WIRING

The WM 500/550 is directly supplied by mains, can commutate up to 2 KW (800 VA inductive) and use our humidity probe model EWHS 28 as input. This sensor is capable of reading a range from 20% to 90% R.H.

TECHNICAL DATA

Housing: ABS plastic, autoextinguish.

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

Mounting: wall mount, with fixing screws.

Connections: screw terminal block (4 mm²; one wire each terminal only).

Display: 10 mm LED (WM 550).

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

Differential: adjustable from 0.5 to 10 °C. Note: the adjustment of the differential is carried out by means of a trimmer in the housing.

Operating temperature: -5...65 °C (23...131 °F).

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

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

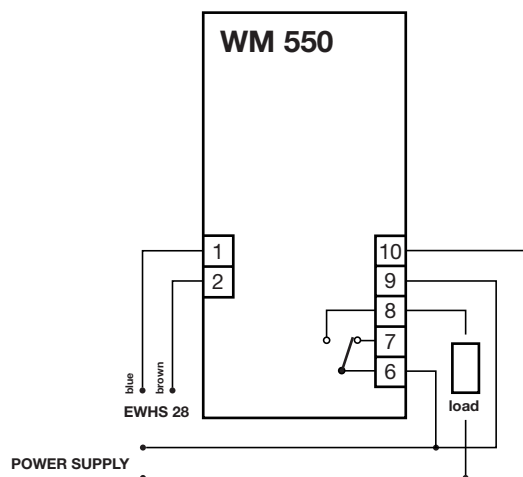
Input: for EWHS 28 probe.

Accuracy: better than 1% RH.

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



CONNECTIONS



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