

REGULATING & MONITORING

MECHANICAL HYGROSTAT



Efficient condensation control

Adjustable relative humidity range

High switching capacity

DIN rail mountable

The MFR 012 electromechanical hygrostat is designed to control the relative humidity inside enclosures. When connected to an enclosure heater (dehumidifier), it will energize the heater at the humidity set point in order to raise the dew point. This helps prevent damage and malfunction of electronic components caused by condensation and corrosion.¹ The MFR 012 can also be used to control cooling fans, warning lights or other devices.

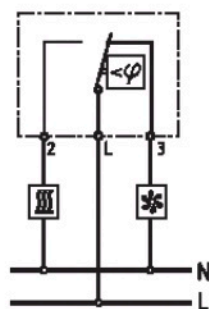
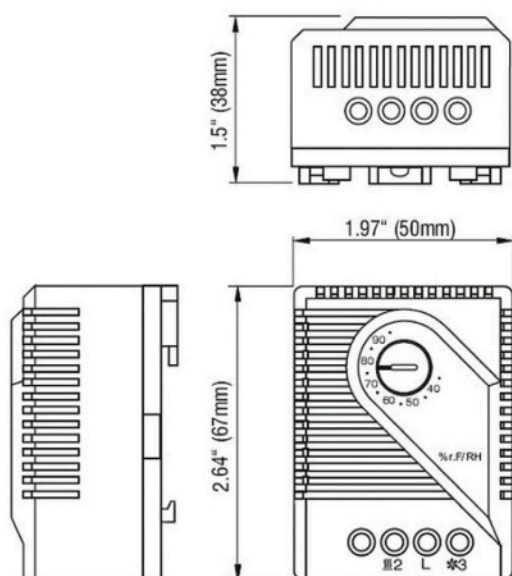
¹ The critical relative humidity level for most components is 65%. Above 65% RH, condensation can form and cause malfunctions of electronic equipment. Long term, this can lead to corrosion and permanent damage of electronic components and systems.



Technical Data

Switching difference	4% RH ($\pm 3\%$ tolerance) - at 50% RH
Permissible air velocity	50 ft/sec (15m/s)
Contact type	SPDT / change-over contact
Service life	> 50,000 cycles
Min. Switching capacity	100mA @ AC/DC 20V
Max. Switching capacity	5 A resistive @ AC 250 V
	DC 20W
Connection	3-pole terminal, clamping torque 0.5Nm max.: solid wire - AWG 14 max. (2.5mm ²) stranded wire ¹ - AWG 16 max. (1.5 mm ²) (1.5mm ²)
Housing	plastic, UL 94V-0, light grey
Mounting	clip for 35mm DIN rail, EN 60715
Mounting position	vertical
Operating / Storage temperature	32 to 140 °F (0 to 60 °C) / -40 to 140 °F (-40 to 60 °C)
Operating / Storage humidity	max. 95 %RH (non-condensing)
Dimensions	2.64 x 1.97 x 1.5" (67 x 50 x 38mm)
Weight	approx. 2 oz. (60g)
Protection type	IP20
Approvals	UL File No. 164102, GOST-R

¹ When connecting with stranded wires, wire end ferrules must be used.



Enclosure heater



Filter fan, cooling equipment, signal device

Part No.	Setting range
01220.0-00	35 to 95% RH