

# MECHANICAL HYGROSTAT

**NEW**



- Adjustable Relative Humidity Range
- High Switching Capacity
- DIN Rail Mountable

The MFR012 is designed to control the relative air humidity inside of enclosures. When connected to an enclosure heater, (de-humidifier), it will turn the heater on at the set humidity level in order to raise the dew point. This helps prevent damage and malfunction of electronic components caused by condensation and corrosion. The MFR012 can also be used to control cooling fans, warning lights or other devices.

## SPECIFICATIONS

**Adjustment Range:** 35 to 95% ( $\pm 3.0\%$ ) relative humidity

**Switching Difference (Hysteresis):** Approx. 4% RH @ 50% relative humidity

**Permissible Air Velocity:** 50 ft/sec (15 m/s)

**Maximum Switching Voltage:** 250 Vac

**Attention:** 250 V should only be switched in a non-condensing environment

**Contact Type:** Change-over contact

**Contact Resistance:** <10 mOhm

**Service Life:** 100,000 cycles

**Minimum Switching Capacity:** 100 mA @ AC/DC 20 V

**Maximum Switching Capacity:** 5 A @ AC 230 V (resistive load)

1.0 A @ AC 230 V (inductive load

at  $\cos \phi = 0.8$ ); DC 20 W

**EMI/EMC Compliance:** EN 55014-1-2, EN 61000-3-2, EN 61000-3-3

**Connection:** 3-pole terminal, 3 x AWG 14 max [2.5 mm<sup>2</sup> (0.1 in<sup>2</sup>)]

**Mounting:** Clip for 35 mm (1.4") DIN rail (EN 50022)

**Dimensions:** 67 H x 50 W x 38 mm D (2.64 x 1.97 x 1.5")

**Housing:** Clip for 35 mm DIN rail (EN 50022)

**Weight:** 60 g (2 oz)

**Operating Temperature:** 0 to 60°C (32 to 140°F)

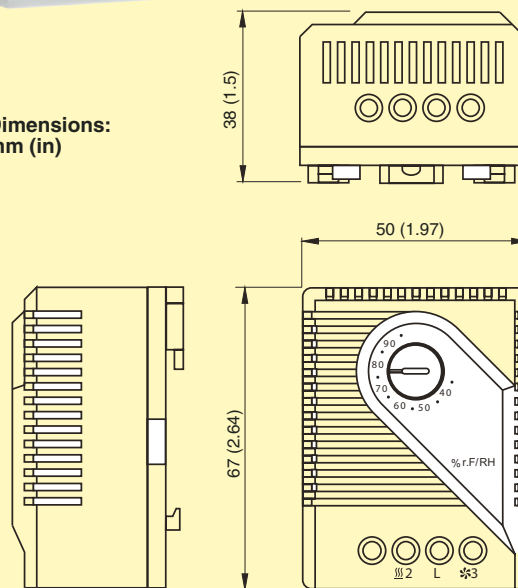
**Storage Temperature:** -20 to 80°C (-4 to 176°F)

**Protection Type:** NEMA 2 (IP20)



MFR01201220000, shown larger than actual size.

**Dimensions:**  
mm (in)



## Application Examples:

- Electrical and Electronic Enclosures
- Telecommunication Systems
- Display Panels
- Ticket Dispensers
- Automatic Teller Machines (ATM's)
- Access and Parking Control Systems

**Note:** The critical relative humidity for most components is 65%. Above 65% RH, condensation can cause malfunction of electronic equipment. Long-term, this can lead to corrosion and permanent damage of electronic components and systems.

**To Order (Specify Model Number)**

**AVAILABLE FOR FAST DELIVERY!**

MODEL NO.	DESCRIPTION
MFR01201220000	Mechanical humidity control, SPDT, 35 to 100% RH, 20 Vdc to 230 Vac

Comes with complete operator's manual.

Ordering Example: MFR01201220000, mechanical hygrometer,

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