

Mechanical Hygrostats



Applications

- Designed to control 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
- Helps prevent damage and malfunction of electronic components caused by condensation and corrosion
- Can be used to control heaters, cooling fans, warning lights, or other devices

Features

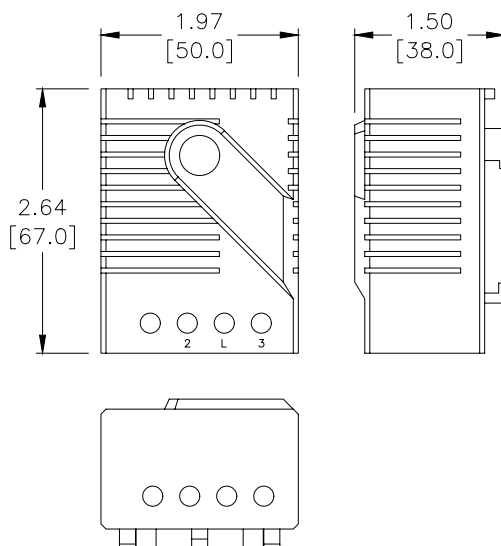
- Efficient condensation control
- Adjustable thumbwheel setting
- High switching capacity
- DIN rail mountable



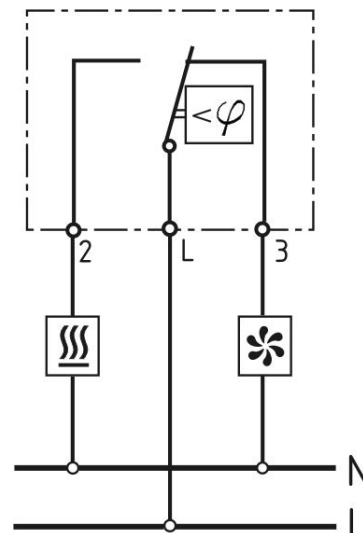
Mechanical Hygrostat		
Part Number	Price	Setting Range
012200-00	\$010q8:	35 to 95% RH

Mechanical Hygrostats Specifications	
Switching Difference	4% RH at 50% RH
Switching Tolerance	±3% RH
Permissible air velocity	50 ft/sec [15 m/s]
Contact Type	SPDT / change-over contact
Service Life	>50,000 cycles
Min. Switching Capacity	100mA @ AC/DC 20V
Max. Switching Capacity	5A resistive @ AC 250V DC 20W
Connection	3-pole terminal, 0.5 Nm max. clamping torque 14 AWG [2.5 mm ²] max. solid wire 16 AWG [1.5 mm ²] max. stranded wire with wire end ferrule
Housing	Plastic, UL 94V-0, light gray
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)
Weight	2.0 oz [60 g]
Protection Type	IP20
Approvals	Recognized File No. E164102, CE, EAC, RoHS 2 compliant

Dimensions



Wiring Diagram



Electronic Hygrostats



012450-00 and 012459-00

Applications

The electronic hygrostats (humidistats) sense the relative humidity in an enclosure and turn on a heater at the set point. This helps prevent the formation of condensation in the enclosure. The integrated LED is lit when the connected device is in operation.

Features

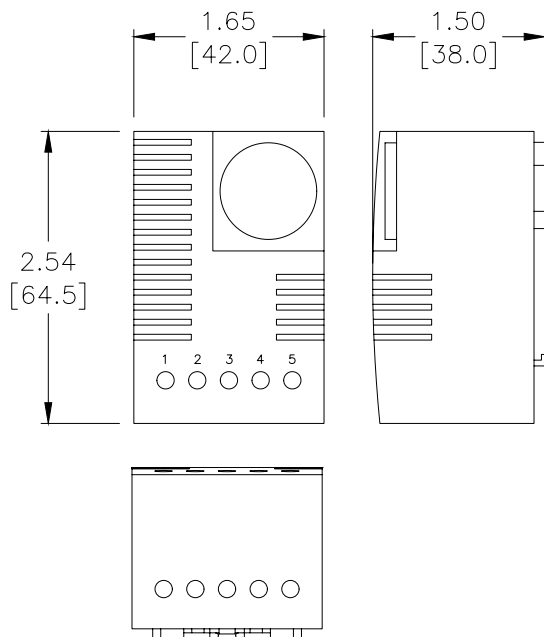
- Adjustable relative humidity setpoints
- Compact design
- High switching capacity
- Visual function display
- DIN rail mounting



Electronic Hygrostats			
PartNumber	Price	OperatingVoltage	SettingRange
012450-00	\$0adc:	230VAC	40% to 90% RH
012459-00	\$0add:	120VAC	40% to 90% RH
012460-00	\$1oqa:	230VAC	65% RH preset
012469-00	\$1oqb:	120VAC	65% RH preset

Electronic Hygrostats Specifications	
Switching Difference	5% RH at 77°F [25°C] and 50% RH
Switching Tolerance	±1% RH
Reaction Time	Approximately 5 seconds
Contact Type	SPDT / change-over contact (relay)
Service Life	50,000 cycles
Max. Switching Capacity(relay output)	8A resistive / 1.6 A inductive @ AC 120V 8A resistive / 1.6 A inductive @ AC240V 100W @ DC 24V
Max. Inrush Current	AC 16A for 10 sec.
Connection	5-pole terminal, 0.5 N m max. clamping torque 14 AWG [2.5mm] max. solid wire 16 AWG [1.5 mm ²] max. stranded wire with wire end ferrule
Housing	Plastic, UL 94V-0, light gray
Mounting	Clip for 35mm DIN rail, EN 60715
Mounting Position	Vertical
Operating Temperature	32 to 140°F [0 to 60°C]
Storage Temperature	-4 to 176°F [-20 to 80°C]
Max. Storage Humidity	90% RH (non-condensing)
Weight	0.14 lb [65 g]
Protection Type	IP20
Approvals	UL Recognized File No. E164102, CE, VDE, EAC, RoHS 2 compliant

Dimensions



Wiring Diagram

