



# 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

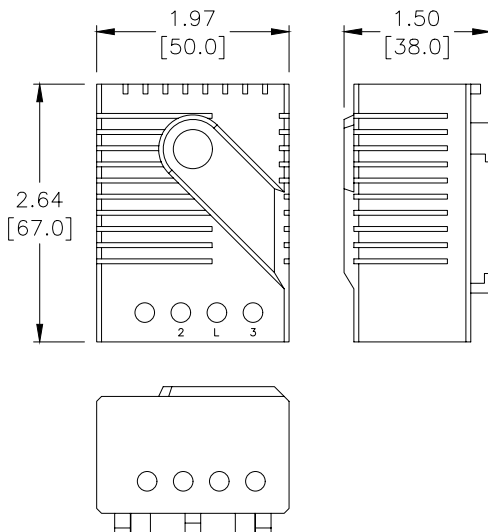


| Mechanical Hygrostat |         |               |
|----------------------|---------|---------------|
| Part Number          | Price   | Setting Range |
| 012200-00            | \$71.00 | 35 to 95% RH  |

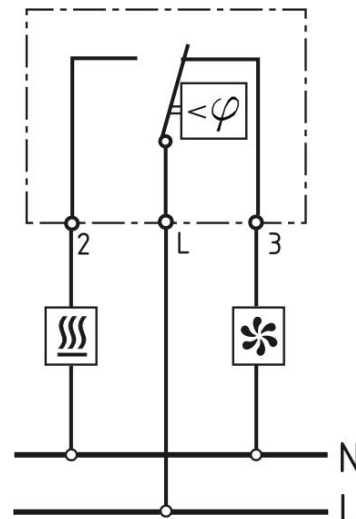
| Mechanical Hygrostats Specifications   |   |
|--|---|
| <b>Switching Difference</b>            | 4% RH at 50% RH   |
| <b>Switching Tolerance</b>             | ±3% RH  |
| <b>Permissible air velocity</b>        | 50 ft/sec [15 m/s]  |
| <b>Contact Type</b>                    | SPDT / change-over contact  |
| <b>Service Life</b>                    | >50,000 cycles  |
| <b>Min. Switching Capacity</b>         | 100mA @ AC/DC 20V   |
| <b>Max. Switching Capacity</b>         | 5A resistive @ AC 250V<br>DC 20W  |
| <b>Connection</b>                      | 3-pole terminal, 0.5 Nm max. clamping torque<br>14 AWG [2.5 mm <sup>2</sup> ] max. solid wire<br>16 AWG [1.5 mm <sup>2</sup> ] max. stranded wire with wire end ferrule |
| <b>Housing</b>                         | Plastic, UL 94V-0, light gray   |
| <b>Mounting</b>                        | Clip for 35mm DIN rail, EN 60715  |
| <b>Mounting Position</b>               | Vertical  |
| <b>Operating / Storage Temperature</b> | 32 to 140°F [0 to 60°C] / -40 to 140°F [-40 to 60°C]  |
| <b>Operating / Storage Humidity</b>    | Max. 95% RH (non-condensing)  |
| <b>Weight</b>                          | 2.0 oz [60 g]   |
| <b>Protection Type</b>                 | IP20  |
| <b>Approvals</b>                       | Recognized File No. E164102, CE, EAC, RoHS 2 compliant  |

## Dimensions

Inches [mm]



## Wiring Diagram



Please see our website [www.AutomationDirect.com](http://www.AutomationDirect.com) for complete engineering drawings.



# Electronic Hygrostats

012450-00 and  
012459-00

## Applications

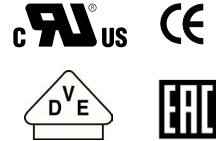
The electronic hygrostats (humidistats) sense the relative humidity in an enclosure and turn on a heater at the set point. This helps prevent the formation of condensation in the enclosure. The integrated LED is lit when the connected device is in operation.

## Features

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



012450-00

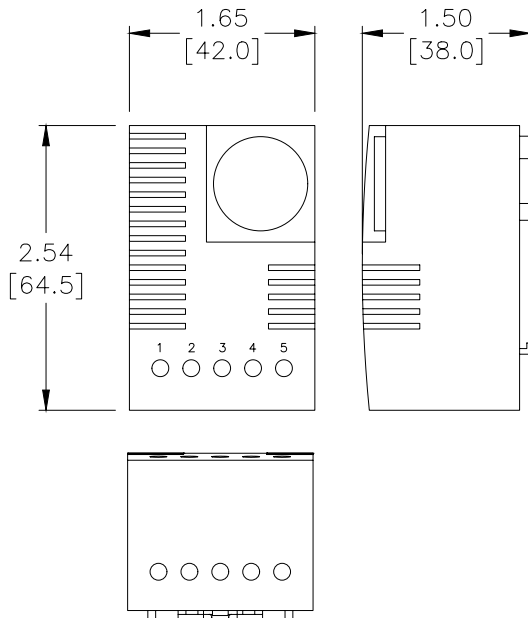


| Electronic Hygrostats |         |                   |               |
|-----------------------|---------|-------------------|---------------|
| Part Number           | Price   | Operating Voltage | Setting Range |
| 012450-00             | \$55.00 | 230VAC            | 40% to 90% RH |
| 012459-00             | \$55.00 | 120VAC            | 40% to 90% RH |
| 012460-00             | \$55.00 | 230VAC            | 65% RH preset |
| 012469-00             | \$55.00 | 120VAC            | 65% RH preset |

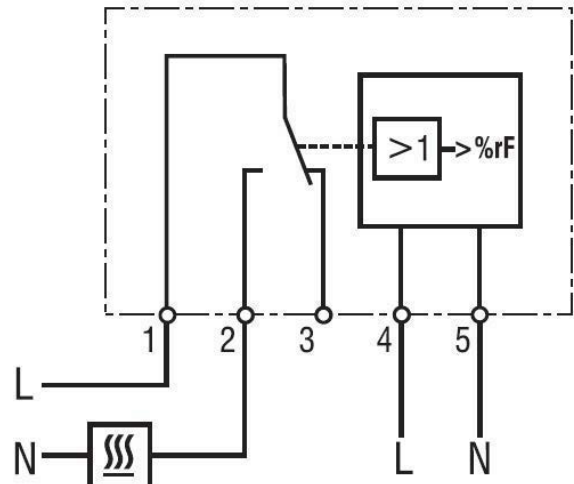
| Electronic Hygrostats Specifications          |  |
|---|--|
| <b>Switching Difference</b>                   | 5% RH at 77°F [25°C] and 50% RH  |
| <b>Switching Tolerance</b>                    | ±1% RH   |
| <b>Reaction Time</b>                          | Approximately 5 seconds  |
| <b>Contact Type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

## Dimensions

Inches [mm]



## Wiring Diagram



Please see our website [www.AutomationDirect.com](http://www.AutomationDirect.com) for complete engineering drawings.