ohmic instruments co.
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INDUSTRIAL & ENVIRONMENTAL SENSORS, INSTRUMENTS & CONTROLS SINCE 1969

ELECTRONIC HUMIDITY CONTROLLER - EHC-100
ECONOMICAL & RELIABLE SOLID-STATE HUMISTAT

- **FAST RESPONSE AND OUTSTANDING LONG-TERM PERFORMANCE**
- **UTILIZES POLYMER BASED RESISTIVE HUMIDITY SENSOR**
- **MAY BE WIRED TO CONTROL HUMIDIFIERS OR DEHUMIDIFIERS**
- **ACCURACY: ±3% RH**
- **DIRECTLY CONTROLS LOADS TO 8A**
- **ATTRACTIVE VENTED WALL MOUNTED ENCLOSURE - CONFORMS TO UL-94V**
- **LOW VOLTAGE OPERATION: 24VAC or 24VDC**
- **RANGE: 25- 85% RH**
- **OPERATING TEMPERATURE: 40-120°F**
- **P.C. CONTROL CARDS FOR OEMS AVAILABLE**

SUPERIOR HUMIDITY CONTROL TO MECHANICAL CONTROLLERS

Model EHC-100 provides accurate and reliable humidity control in a simple to install and operate configuration. These electronic humistats overcome the limitations of typical sluggish humidity controllers that rely on the expansion of plastic, mylar or hair elements. A polymer based resistive humidity sensor and solid-state electronics are utilized to measure the ambient humidity and energize a relay when humidity conditions deviate from the setpoint. The controller can be wired to operate humidifiers, dehumidifiers or air-conditioning units.

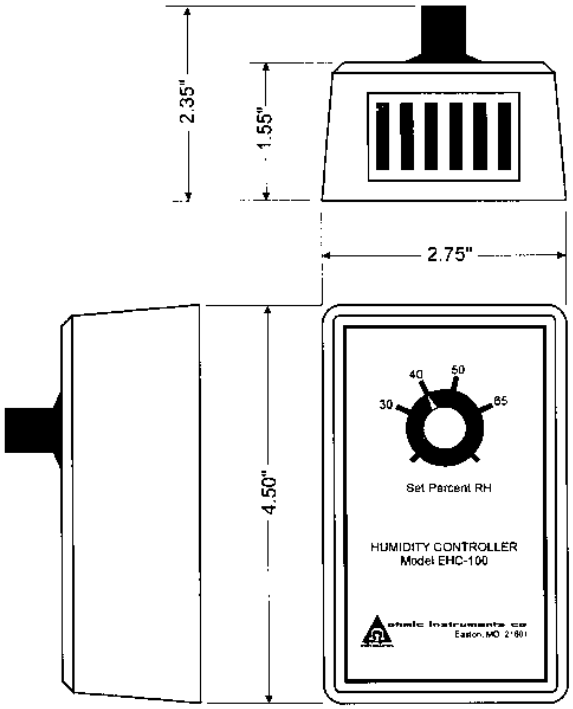
The EHC-100 mounts on a wall and is equipped with a mounting base and screw terminal block for wire connections. Installation time takes only a few minutes. It operates on the standard 24 VAC low voltage supply for commercial and residential thermostats or 24 VDC. The setpoint is fixed by rotating a front panel knob to the desired value. The unit maintains room conditions to a precision of better than ±3% over the range of 25-95% RH. It is equipped with a 8A form-C (SPDT) relay. The relay circuit includes a jumper which enables the control output to be either a “switched” 24 VAC/VDC signal or a “dry-contact” to control equipment that runs on line voltage.

Value priced; please call for latest pricing. In addition, the unit can be supplied as a printed circuit card for installation in OEM equipment. For OEMs, custom labeling options are also available.

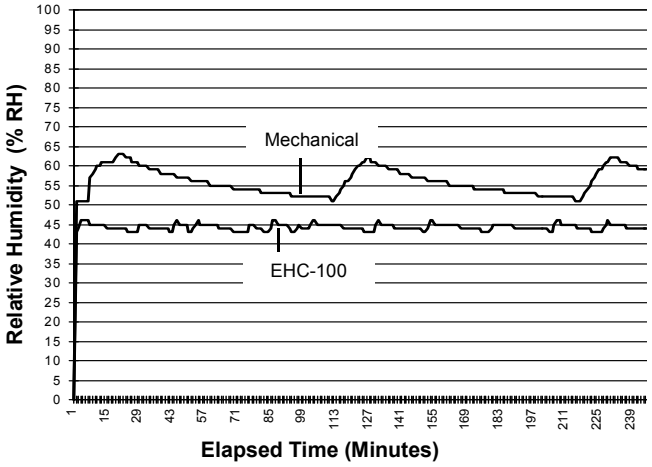
OHMIC Instruments also manufactures line operated humistats, %RH and temperature transmitters and units for industrial humidity monitoring and control. Contact us for additional information.

SPECIFICATIONS - EHC-100

Power	24 VAC or 24 VDC, ±10%
Range	25-85% RH
Accuracy	±3% RH
Response	15 Seconds for 63% Step Change
Sensor	UPS-600 resistive, condensation tolerant
Condensation	Full Recovery from Condensation
Relay	8A, SPDT, Rated at 24 Vdc Resistive
Hysteresis	±1.5% RH
Operating Temp	40-120°F
I/O	Screw Terminals 18-22 AWG
Enclosure	Vented ABS, Meets UL-94-V Specifications
Dimensions	2.75"W x 4.5"H x 2.35"D

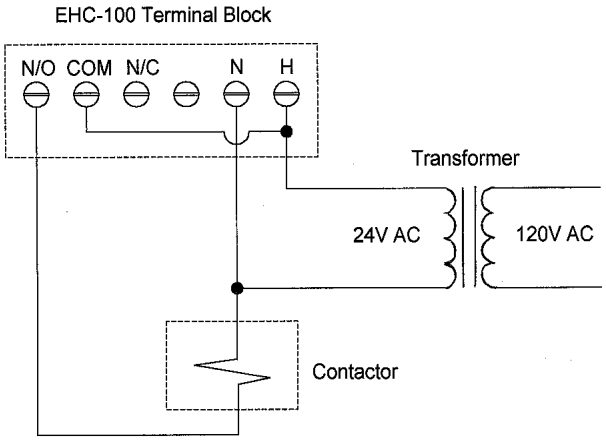


COMPARISON OF EHC-100 TO MECHANICAL HUMISTAT



The sensitivity and accuracy of OHMIC's EHC-100 Electronic Humidity Controller was compared to a mechanical humistat. The EHC-100 utilizes a UPS series humidity sensor and solid state electronics while a mechanical humistat relies on the expansion and contraction of a Mylar element. The mechanical controller was set to 55% RH, while the EHC-100 was set to 45% RH. Both controllers were wired to a humidifier in a closed room for 6 hours. The room temperature was 75°F.

LOW-VOLTAGE WIRING DIAGRAM



ENGINEERING SUPPORT: OHMIC Instruments Co. designs and manufactures a full line of environmental and bio-medical sensors, instruments and controls. Many of our products are custom designed to meet specific requirements. Our engineers will be pleased to discuss your application.

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