

Relative Humidity Controller with Recorder Output

RHCN-3



Optional* 230 V Versions

- ✓ Accurate to $\pm 3\%$ RH
- ✓ Splash-Proof NEMA Enclosure
- ✓ Stainless Steel Miniature RH Probe May Be Remotely Mounted Thousands of Feet from Controller
- ✓ Setpoint/Bandwidth Control
- ✓ 10 mV/% RH or 50 mV/% RH Recorder Output
- ✓ OEM Markets

OMEGA's RHCN-3 is an economical relative humidity controller. The probe uses a thin film polymer capacitive sensor which may be mounted thousands of feet from the controller box. The RHCN-3 has a standard 10 mV/% RH or 50mV/% RH (internally selectable) recorder output, and a 5 A SPDT relay for control. The controller is suitable in such applications as baking and food processing, HVAC, computer rooms, art galleries, greenhouses, and many others.



RHCN-3 shown actual size.

Specifications

Accuracy: $\pm 3\%$ RH from 3% to 95% RH at 25°C

Operating Temperature Range: -20 to 85°C (4 to 185°F)

Control Output: SPDT relay form "C"; rated 5 A, 250 Vac, 30 Vdc

Recorder Output: 10 mV/% RH or 50 mV/% RH, internally set

Bandwidth Control: Non-interacting, 0 to $\pm 20\%$ RH

Power: 8 Vdc to 30 Vdc, 125 milliamps max

Mechanical

Probe: Stainless steel, 19 mm diameter (0.75"), 119 mm long (4.7"), 1.5 m (5'), 2-wire cable, bracket for wall mounting

Controller: Housed in standard "T" box 114 L x 70 W x 51 mm deep (4½ x 2¾ x 2") screw terminal connections

To Order

Model No.	Description
RHCN-3	Relative humidity controller and probe
RHCN-3-RP	Replacement probe
PSR-24S	Regulated power supply, 24 Vdc, 400 mA, screw terminal
PSR-24L	Regulated power supply, 24 Vdc, 400 mA, UL, 1.8 m (6') cord with stripped leads
PSR-24L-230	Regulated power supply, 24 Vdc, 400 mA, stripped leads, 230 Vac input, CE
PSU-93	Unregulated power supply, 16 to 23 Vdc, 300 mA max, screw terminal
RHCN-3-CABLE	2-wire cable 152 m (500') spool
CAL-3-HU*	NIST-traceable calibration

Comes complete with wall mounting bracket for probe, operator's manual.

Ordering Example: RHCN-3, relative humidity controller with PSU-93, power supply.