

High Performance RH Controller Panel-Mount Design

RHCN Series
\$625
All Models

RHCN-1F, \$625,
controller.



- ✓ Controls Both RH and Temperature
- ✓ Two 5A Relay Contacts
- ✓ Adjustable Deadbands for Relative Humidity and Temperature
- ✓ Dual Recorder Outputs
- ✓ Remote RH/Temperature Probe Included
- ✓ Adjustable/Removable Probe Duct Flange Easily Adjusts Probe Depth

The RHCN Series controllers are economical, panel-mounted instruments designed to monitor and control RH and temperature, and feature dual relay contacts for on/off control. An easily accessible front panel switch toggles the large LED display between a continuous reading of either relative humidity or air temperature. The RHCN features 2 standard recorder outputs of 10 mV/% RH and 10 mV/degree, for simple interfacing with a computer or datalogging device.

The solid state humidity and 100 Ω Platinum RTD temperature sensors are enclosed in a compact probe which may be mounted virtually any distance away from the controller.

Specifications

Measuring Ranges: 3 to 95% RH (temperature compensated -10 to 175°F); 0 to 85°C (0 to 180°F)

Accuracy: ±2% RH; ±1°F/°C

Display Resolution: 1% RH; 1°F/°C

Response Time: Less than 20 sec

Setpoint Controls: Digitally adjustable from 0% to 100% RH, 0 to 85°C (0 to 180°F). Deadband adjustable from ±0% RH to ±50% RH, and ±0°F/°C to ±50°F/°C

Control Outputs: Dual SPDT relays, 5 A/250 Vac



Recorder Outputs: 10 mV/% RH, and 10 mV/degree

Display: 14 mm (0.56") LED, off-scale indication for open input, relay "on" LED indication

Controller Mounting: Panel mount with adjustable mounting bracket, adjusts up to 9.5 mm (3/8") thick panels

Power: 115 or 230 Vac ±15%, 50/60 Hz, 5 W max

Connections: Screw terminals, 14 AWG max; probe supplied with 4-pin mating connector, 26 to 18 AWG wires

Probe Mounting: Duct mount with adjustable/removable duct flange [adjustable from 25 to 216 mm (1 to 8.5")]; 83 mm (3.25") diameter cutout, 27 mm (1.062") diameter flange with 4 evenly spaced 4 mm (0.156") holes on 57 mm (2.25") circle; wall mounting bracket included

Dimensions:

Controller:

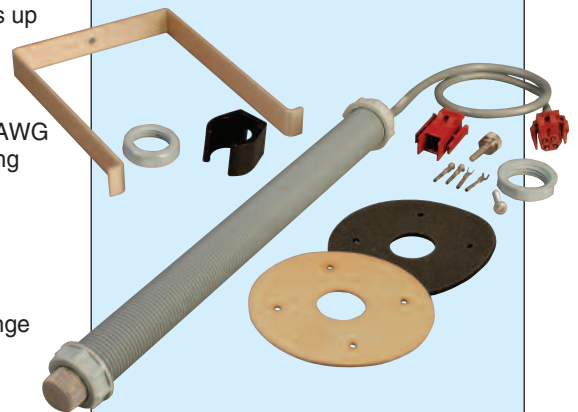
45 H x 92 W x 127 mm D
(1.772 x 3.622 x 5.0")

Probe, CPVC Tube:

235 L x 22 mm D (9.25 x 0.84")

Panel Cutout: 45 H x 92 mm W
(1.772 x 3.622"), 1/8" DIN

System comes complete with temperature/humidity probe and mounting hardware. Shown smaller than actual size.



Weight:

Controller: 539 g (19 oz)

Probe: 142 g (5 oz)

**MOST POPULAR
MODELS HIGHLIGHTED!**

To Order (Specify Model Number)		
Model No.	Price	Description
RHCN-1F	\$625	Relative humidity/temperature controller, °F display, 120 Vac, includes probe
RHCN-1C	625	Relative humidity/temperature controller, °C display, 120 Vac, includes probe
RHCN-2F	625	Relative humidity/temperature controller, °F display, 230 Vac, includes probe
RHCN-2C	625	Relative humidity/temperature controller, °C display, 230 Vac, includes probe
2319	195	Replacement RH/temperature probe
CAL-3-HU*	125	NIST-traceable calibration

Controller comes complete with humidity/temperature probe and operator's manual.

Ordering Examples: RHCN-1C, relative humidity/temperature controller with °C display and probe with CAL-3-HU, NIST-traceable calibration, \$625 + 125 = \$750.

RHCN-2F, relative humidity/temperature controller with °F display, \$625

Recommended Reference Book: Cumulative Sum Charts, GE-2108, \$119.
See Section Y For Additional Books





UNITED STATES

www.omega.com
1-800-TC-OMEGA
Stamford, CT.

CANADA

www.omega.ca
Laval(Quebec)
1-800-TC-OMEGA

GERMANY

www.omega.de
Deckenpfronn, Germany
0800-8266342

UNITED KINGDOM

www.omega.co.uk
Manchester, England
0800-488-488

FRANCE

www.omega.fr
Guyancourt, France
088-466-342

CZECH REPUBLIC

www.omegaeng.cz
Karviná, Czech Republic
596-311-899

BENELUX

www.omega.nl
Amstelveen, NL
0800-099-33-44



More than 100,000 Products Available!

• Temperature

Calibrators, Connectors, General Test and Measurement Instruments, Glass Bulb Thermometers, Handheld Instruments for Temperature Measurement, Ice Point References, Indicating Labels, Crayons, Cements and Lacquers, Infrared Temperature Measurement Instruments, Recorders Relative Humidity Measurement Instruments, RTD Probes, Elements and Assemblies, Temperature & Process Meters, Timers and Counters, Temperature and Process Controllers and Power Switching Devices, Thermistor Elements, Probes and Assemblies, Thermocouples Thermowells and Head and Well Assemblies, Transmitters, Wire

• Flow and Level

Air Velocity Indicators, Doppler Flowmeters, Level Measurement, Magnetic Flowmeters, Mass Flowmeters, Pitot Tubes, Pumps, Rotameters, Turbine and Paddle Wheel Flowmeters, Ultrasonic Flowmeters, Valves, Variable Area Flowmeters, Vortex Shedding Flowmeters

• pH and Conductivity

Conductivity Instrumentation, Dissolved Oxygen Instrumentation, Environmental Instrumentation, pH Electrodes and Instruments, Water and Soil Analysis Instrumentation

• Data Acquisition

Auto-Dialers and Alarm Monitoring Systems, Communication Products and Converters, Data Acquisition and Analysis Software, Data Loggers Plug-in Cards, Signal Conditioners, USB, RS232, RS485 and Parallel Port Data Acquisition Systems, Wireless Transmitters and Receivers

• Pressure, Strain and Force

Displacement Transducers, Dynamic Measurement Force Sensors, Instrumentation for Pressure and Strain Measurements, Load Cells, Pressure Gauges, Pressure Reference Section, Pressure Switches, Pressure Transducers, Proximity Transducers, Regulators, Strain Gages, Torque Transducers, Valves

• Heaters

Band Heaters, Cartridge Heaters, Circulation Heaters, Comfort Heaters, Controllers, Meters and Switching Devices, Flexible Heaters, General Test and Measurement Instruments, Heater Hook-up Wire, Heating Cable Systems, Immersion Heaters, Process Air and Duct, Heaters, Radiant Heaters, Strip Heaters, Tubular Heaters