

# Relative Humidity Controller

HUMIDITY CONTROLLERS AND TRANSMITTERS

- Quality relative humidity set point controller
- Stainless steel probe (4.7" long x .75" diameter)
- State-of-the-art thin film polymer sensor
- Recorder output of 0 to 1 volt (or 0 to 5 volts) for 0 to 100% RH input
- Independent bandwidth control
- 5 AMP, 250 VAC SPDT relay for setpoint output
- Standard metal "T" box enclosure



## RHS-1 Humidity Controller and Probe

The Model RHS-1 measures Relative Humidity (RH) and is also a setpoint RH controller. The RHS-1 has two outputs: a 5 Amp 250 VAC SPDT controller relay and a 10 mV/% RH recorder output. The setpoint and dead band controls are independent of each other, which makes setting these parameters fast and simple. The included probe may be mounted up to 1,000 feet from the controller and includes a wall mounting bracket.

### Accuracy

±3 % RH, from 3 % to 95 % RH

### Operating Temperature Range

Probe -20 °C to +85 °C  
Controller 0 °C to +75 °C.

### Recorder Output

10 mV/%RH (50 mV/%RH with resistor removed)

### Controller Output

SPDT (Form "C") Relay; 5 AMPS 250 VAC or 30 VDC

### Bandwidth Control

±0 to ±20 % RH, independent of Setpoint setting

### Input Power

8 VDC to 30 VDC at 125 milliamps maximum

### Probe

Stainless steel, 19 mm (.75 in) diameter, 119.4 mm (4.7 in) long, 1.5 m (5 ft) two-wire cable with bracket for wall mounting. The probe may be mounted up to a thousand feet from the controller box.

### Enclosure

Controller mounted in standard metal "T" box 114 mm x 70 mm x 51 mm (4.5 in x 2.75 in x 2 in), screw terminal connectors.

### Included Accessories

Manual P/N RHS-1-900-01

### Optional Accessories

RH Calibration Kit P/N RH-CAL  
Allows fast calibration of all TEGAM humidity controllers and transmitters. Calibration salts for 11 % and 75 % RH points are useful for a minimum of two years of testing. The kit contains the following:

- (2) Bottles containing 1 oz. (28 gm) each of ACS' reagent quality, lithium chloride (11.3 % RH) salt and sodium chloride (75.3 % RH) salt.
- (2) Fitting caps to accommodate all TEGAM humidity controllers and transmitters.
- (1) liquid dropper
- Set of instructions
- Case

Z540 Compliant Calibration with Certificate and Data for RHS-1 P/N OPT-Z540



Prices and specifications subject to change without notice.



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