

HUMIDITY CONTROLLERS AND TRANSMITTERS

# RH/Temp Duct Probe with Built-In Transmitter





- Wall mounting bracket provided
- Transmitter built into the probe housing
- Adjustable or removable duct flange included
- Water tight stainless steel housing
- 4 to 20 mA or 0 to 1 V outputs
- 0 to 100 °C operating range

The RDP series transmitters are ideal for measuring Relative Humidity (RH) and temperature in enclosures or ducts. The RDP requires a hole less than 1" in diameter and can be inserted anywhere from 1" to 9" into the enclosure. The RDP can be ordered with 4-20 mA or 0-1 V ouputs and includes a bracket for wall mounting.

### **Relative Humidity**

3 % RH to 95 % RH range at  $\pm 2$  % RH accuracy. Temperature compensated -10 °F to  $\pm 175$  °F

### **Temperature**

0 °C to +100 °C (32 °F to +212 °F) range at ±0.6 °C (±1 °F) accuracy.

# **RH and Temperature Outputs**

4 to 20 mA or 0 to 1 V

## **Input Voltage**

6 to 30 VDC, polarity protected for both current and voltage input units

## **Dimensions**

See diagram below

### **Temperature Response Time**

Under 10 seconds

## Housing

Stainless steel NEMA 4 enclosure. Duct flange 70 mm (2.75 in) dia. cutout hole 21 mm (.812 in) dia. has 4 mounting holes 4 mm (.156 in) dia. on 51 mm (2 in) circle. Wall mounting bracket also included.

## Weight

198 grams (7 ounces) with flange

#### **Connections**

4 pin connector on 12 in. cable accepts 26 to 18 AWG wires. Mating connector included. Maximum Loop resistance at 20 mA for each output (RH and temperature); 0  $\Omega$  at 6 VDC, 200  $\Omega$  at 10 VDC, 700  $\Omega$  at 20 VDC, 1450  $\Omega$  at 30 VDC.

## **ORDERING INFORMATION**

#### **RH/TEMP Duct Probe Transmitter**

(4 to 20 mA outputs) Order Model: RDP-20C

## **RH/TEMP Duct Probe Transmitter**

(0 to 1 volt outputs) Order Model: RDP-10V

## **Included Accessories**

Manual P/N RDP-20-901-01

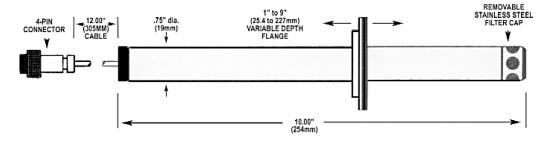
#### **Optional Accessories**

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 good for at least two years. 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 P/N OPT-Z540



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