

# Temperature & Humidity Transmitters

HUMIDITY CONTROLLERS AND TRANSMITTERS

- 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 outputs and includes a bracket for wall mounting.

## RH/Temp Duct Probe with Built-In Transmitter

### Relative Humidity

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

### Temperature

0 °C to +100 °C (32 °F to +212 °F) range at  $\pm 0.6$  °C ( $\pm 1$  °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 ohms at 6 VDC, 200 ohms at 10 VDC, 700 ohms at 20 VDC, 1450 ohms 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

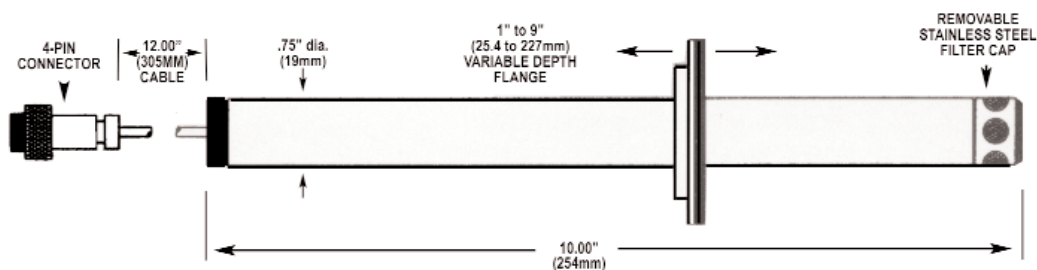
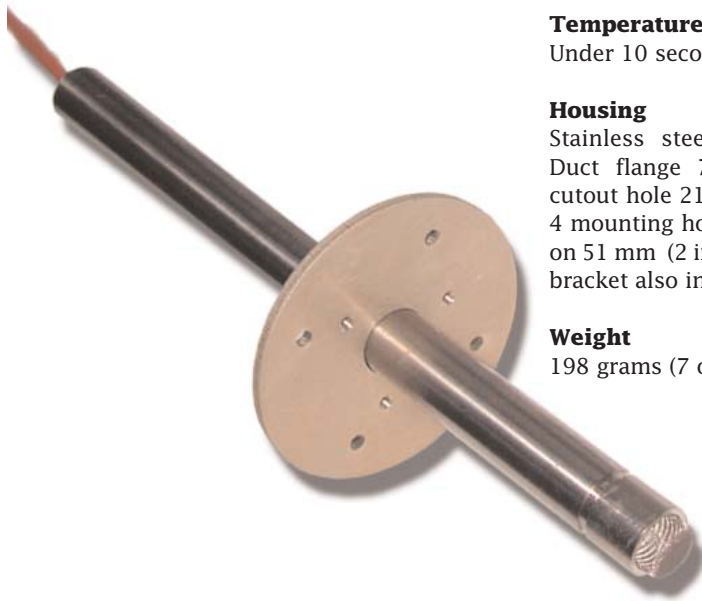
Manual P/N RDP-20-901-01

### 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



Prices and specifications subject to change without notice.



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