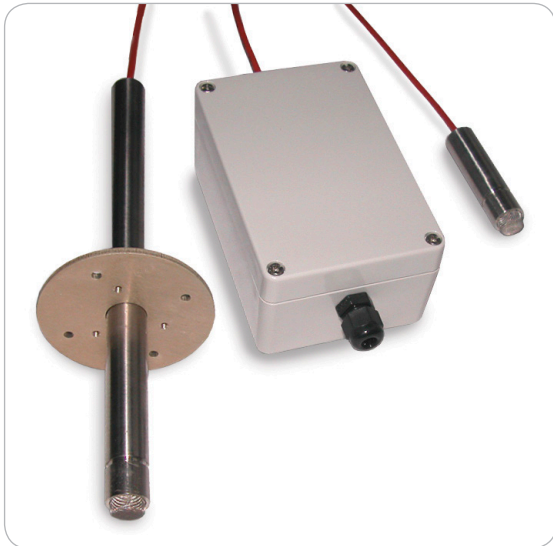


## Wide Range RH/Temperature Transmitter and Probe



- Wall or Duct Mounting (wall mount bracket included with wall mount version)
- Remote Stainless Steel Probes  
2.5" Wall Mounted, 8.5" Duct Mounted
- Adjustable or removable duct flange included with duct mount version
- Water-tight stainless steel NEMA 4 probe housing
- 4 to 20 mA outputs
- -40 °C to 180 °C (-40 °F to 356 °F)  
Operating Range

The HTRH series two-wire remote transmitter measures relative humidity and temperature over a wide temperature range (-40 °C to +180 °C). The transmitter comes with either a wall mounted or duct probe. The HTRH-W 2.5 in. stainless steel probe is used for wall mounting. The HTRHD 8.5 in stainless steel duct probe has a removable flange. The probes are connected to the transmitter with 40" (1 M) teflon cables.

### Relative Humidity

3 % RH to 95 % RH range,  
accuracy  $\pm 2$  % RH at 25 °C

### Typical Temp. Characteristics:

-40 °C to 150 °C at 0.05 % RH/°C

### Operating Range: -40 °C to +180 °C

Time constant under 30 seconds

### Temperature

-40 °C to +180 °C at  $\pm 0.5$  °C  
Time constant under 4 seconds

### RH and Temperature Outputs

4 to 20 mA

### Input Voltage

7 to 30 VDC polarity protected

### Dimensions

#### Transmitter:

ABS housing, 120 mm x 80 mm  
(4.72 in x 3.14 in x 2.16 in)  
Temp. operating range -20 °C to +70 °C.  
Meets NEMA 4x, 13 specifications

#### Wall Probe

Stainless steel, 64 mm x 16 mm  
diameter (2.5 in x .625 in),  
includes metal wall mounting clip,  
40 in. (1 M) teflon cable

#### Duct Probe

Stainless steel, 216 mm x 16 mm  
diameter (8.5 in x .625 in),  
1 M (40 in) teflon cable with  
adjustable or removable duct flange  
70 mm (2.75 in) diameter

#### Probe Housings

Stainless steel NEMA 4 enclosure

#### Connectors

Liquid tight for .09 in. to .265 in.  
diameter cables. 4 pin plug-in screw  
terminal block for outputs. 5 pin screw  
terminal block for sensor cable.

#### Weight

Wall probe with transmitter 397 grams (14 oz)  
Duct probe with transmitter 567 grams (20 oz)

### ORDERING INFORMATION

#### Transmitter with Wall Mounted 2.5" Probe

Order Model: HTRH-W

#### Transmitter with Duct Mounted 8.5" Probe

Order Model: HTRH-D

#### Included Accessories

Manual P/N HTRH-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 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