HUMITRAN

HUMIDITY SENSORS

- State-of-the-Art capacitive thin film humidity sensor
- 100 ohm Platinum RTD temperature sensor
- Temperature compensated humidity output
- Factory calibrated
- Low cost

The HUMITRAN series provides a reliable, accurate, and low cost solution for monitoring relative humidity and temperature.

Solid state sensors supply excellent sensitivity, fast response and long-term stability. Simple hookup and linearized output permit interfacing with most display or control devices.

Sensor-transmitters for Measuring and Controlling Relative Humidity and Temperature

RH/TEMP TRANSMITTER
Model RHT-20C or RHT-10V

RH TRANSMITTER
Model RH-20C or RH-10V

AUTOMOTIVE	MEDICAL	FOOD PROCESSING
Engine Test Cells	Pill Coating	Freeze Drying
Emission Testing	Operating Room	Grain Silos
Paint Spray	Toxicology	Baking
Passenger Environment	Testing	Poultry Industry

MANUFACTURING	STORAGE	ENVIRONMENTAL
Plastics	Food	Heating, Ventilating
Printing	Grain	Air Conditioning
Painting	Paper	Computer Rooms
Adhesives	Tobacco	Museums

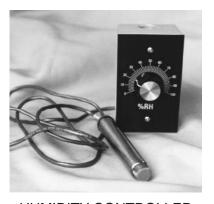A model RDP temperature duct probe transmitter included

RH/TEMP CONTROLLER
Model CSP-F1, CSP-C1, CSP-F2, CSP-C2

HIGH TEMP RH/TEMP PROBE TRANSMITTER
Model HTRH-D or HTRH-W

RH/TEMP DUCT PROBE TRANSMITTER
Model RDP-20C or RDP-10V

HUMIDITY CONTROLLER
**Model RHS-1
Model RH Setpoint Controller**

TEGAM

YOUR GLOBAL SOURCE FOR TEST AND MEASUREMENT SOLUTIONS

HUMITRAN-C

RH/TEMP CONTROLLER

- **Included Probe may be Thousands of Feet from the Controller**
- **Recorder Outputs**
- **Dual Setpoints, Relay Outputs**

- **Digital Display of Setpoints, Deadbands, and Values**
- **1/8 DIN Metal Enclosure with Panel Mounting Bracket**

Relative Humidity: 3% RH to 95% RH range at ±2% RH accuracy. Temperature compensated -10°F to +175°F. 1%RH display resolution.
Temperature: 0°F to 180°F range at 0±1 °F accuracy, 1° resolution (0°C to 85°C, ±.6°C accuracy for °C version).
Controls: Setpoints: 0%RH to 100% RH, 0°F to 180°F. Deadbands; to ±50%RH, to ±50°F (±40°C) -all digitally displayed.

Response Time: Under 20 seconds.
Setpoint Outputs: Dual SPDT relays, 5 amp/250VAC contact rating.
Recorder Outputs: 10mv/%RH and 10mv/°F (10mv/°C).
Display: 0.56" high-brightness digits. Off-scale indication for open wires. Relay "ON" indicators.
Input Power: 115VAC±15%, 50/60Hz, 5 watts maximum. 230V AC model available.

HUMITRAN-RDP

RH/TEMP DUCT PROBE TRANSMITTER

- **Adjustable, Removable Duct Flange**
- **Wall Mounting Bracket Provided**

- **RDP-20C (4 to 20ma) or RDP-10 (0 to 1V) Outputs**
- **Stainless Steel Housing**

Relative Humidity: 3% RH to 95% RH range at ±2% RH accuracy. Temperature compensated -10°F to + 175°F .
Temperature: 0°C to 100°C (32°F to 212°F) range at±0.6°C (±1°F) accuracy for 4 to 20ma or 0 to 1V output.

RH Output: 4 to 20 ma or 0 to 1V represents 0% to 100% RH.
Input Voltage Range: 6 to 30VDC, polarity protected for both current and voltage output units.
Response Time: Under 10 seconds

HUMITRAN- RHT & HUMITRAN RH

RH/TEMP TRANSMITTER

- **Compact Wall Mounting**
- **NEMA Housing**

- **RHT-20C (4 to 20ma) or RHT-10V (0 to 1V) Outputs**

RH TRANSMITTER

- **Smallest Size Wall Mount**
- **NEMA Housing**
- **Low Cost**

- **RH-20C (4 to 20ma) or RH-10V (0 to 1V)Outputs**

Relative Humidity: 3% RH to 95% RH range at ±2% RH accuracy. Temperature compensated -10°F to +175°F.
RH Output: 4 to 20 ma or 0 to 1V represents 0% to 100% RH.
Temperature: -20°C to +75°C (-4°F to 167°F) ±.6°C (±1°F)

accuracy for 4 to 20ma or 0 to 1V output.
Input Voltage Range: 6 to 30VDC, polarity protected for both current and voltage output units.
Response Time: Under 10 seconds

HUMITRAN RHS SERIES

HUMIDITY CONTROLLER

- **Quality relative humidity set point controller**
- **Stainless steel probe (4.7" long x 3/4" diameter)**
- **State-of-the art thin film polymer sensor**

- **Recorder output of 0 to 1V (or 0 to 5V) for 0 to 100% RH input**

Accuracy: 3% RH, from 3% to 95% RH
Operating Temperature Range: Probe -20° to 85C. Controller 0° to 75°C.
Recorder Output: 10mV/%RH (50mV/%RH with resistor removed).
Controller Output: SPDT (Form "C") Relay; 5AMPS 250 VAC or 30 VDC.

Bandwidth Control: ±0 to ±20% RH, independent of Setpoint setting.
Power: 8VDC to 30 VDC at 125 milliamps maximum.
Probe: Stainless steel, .75" diameter, 4.7" long, 5'2-wire cable with bracket for wall mounting.
Enclosure: Controller mounted in standard metal "T" box (4.5" x 2.75" x 2" deep) screw terminal connectors.

HUMITRAN HT SERIES

HIGH TEMPERATURE RH/TEMP PROBE TRANSMITTER

- **Remote Stainless Steel Probes HTRH-W (2.5" Wall Mounted), HTRH-D (8.5" Duct Mounted)**

- **-40°C to 180°C (-40F to 356°F) Operating Range**
- **2% RH, 0.5°C Accuracies**

Relative Humidity: 3% RH to 95% RH range, +/- 2% RH
Temperature: -40° to 180°C at +/- 0.5°C. Time constant under 4 seconds.

Power Inputs: 7 to 30 VDC polarity protected.
Outputs: 4 to 20 mA, for 0 to 100% RH; 4 to 20mA, for -40°C to 180°C

TEGAM