The Series RHP Temperature and Humidity Transmitters combine the voltage or current humidity transmitter output with a passive temperature thermistor or RTD output. Featuring polymer capacitance humidity sensors, models are available with 2%, 3%, or 5% accuracies. Duct mounted transmitters are available with an optional two-line alpha numeric LCD display.

FEATURES/BENEFITS
- 2%, 3%, or 5% accuracy models
- Optional LCD display on duct mount models
- Radiation shield option for outdoor installation in direct sunlight

APPLICATIONS
- Air economizers
- Outdoor temperature and relative humidity reference
- Pool room humidity monitoring

SPECIFICATIONS
- Relative Humidity Range: 0 to 100% RH.
- Temperature Range: 40°F to 140°F (-40 to 60°C).
- Accuracy, RH: RHP-2XXX ±2% 10-90% RH @ 25°C; RHP-3XXX ±3% 20-80% RH @ 25°C; RHP-5XXX ±5% 20-80% RH @ 25°C.
- Accuracy, Thermistor Temp Sensor: ±0.2°C @ 25°C (±0.36°F @ 77°F).
- Accuracy, Solid State Band Gap: ±0.9°F @ 77°F (±0.5°C @ 25°C).
- Hysteresis: ±1%.
- Repeatability: ±0.1% typical.
- Temperature Limits: -40°F to 140°F (-40 to 60°C).
- Storage Temperature: -40°F to 176°F (-40 to 80°C).
- Compensated Temperature Range: -4 to 140°F (-20 to 60°C).

4 to 20 mA Loop Powered Models: Power requirements: 10-35 VDC; Output signal: 4-20 mA.

0-5/10V Output Models: Power requirements: 15-35 VDC or 15-29 VAC; Output signal: 0-10 V @ 5 mA max.

Solid State Band Gap Temperature Sensor Output Ranges: Switch selectable, -20 to 140°F (-28.9 to 60°C); 0 to 100°F (-17.8 to 37.8°C); 40 to 90°F (4.4 to 32.3°C); -4 to 140°F (-20 to 60°C).

Response Time: 15 s.

Electrical Connections: Removable screw terminal block.

Agency Approvals: CE.

EXAMPLE
- Example RHP-2D1A-LCD
- RHP-2D1A-LCD

This model chart shows the various options available for the RHP series temperature and humidity transmitters.

**Note:** Use OSA with sintered filter models when purchasing Series RHRS radiation shield separately.