The Series RHP Humidity/Temperature 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.

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

**SPECIFICATIONS**
- **Relative Humidity Range:** 0 to 100% RH
- **Temperature Range:** -40 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, RTD Temp Sensor:** DIN Class B; ±0.3°C @ 0°C (±0.54°F @ 32°F)
- **Accuracy, Solid State Band Gap:** ±0.9°F @ 77°F (±0.3°C @ 25°C)
- **Hysteresis:** ±1%
- **Repeatability:** ±0.1% typical
- **Temperature Limits:** -40 to 140°F (-40 to 60°C)
- **Storage Temperature:** -40 to 176°F (-40 to 80°C)
- **Compensated Temperature Range:** -4 to 140°F (-20 to 60°C)
- **Power Requirements:** 4-20 mA loop powered models: 10-35 VDC; 0-5/10 V output models: 15-35 VDC or 10-29 VAC
- **Output Signal (Model Dependent):** 4-20 mA; 0-5/10V @ 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
- **Conduit Connection:** Duct mount: 1/2˝ NPS; OSA: 1/2˝ (22.3 mm)
- **Drift:** <1% RH/year
- **RH Sensor:** Capacitance polymer
- **Temperature Sensor:** Types 1, 2, 3: Solid state band gap; Curves A, B, C: Thermistor: Curves D, E: Platinum RTD DIN 385
- **Enclosure Material:** Duct mount sensor tube: PVC-UL 94 V-0; Duct mount sensor: Makrolon® polycarbonate-UL 94V-HB; OSA: Polycarbonate
- **Enclosure Rating:** Duct mount: NEMA 4X (IP66) for housing only; OSA: NEMA 4X (IP66)
- **Display:** Duct mount only, optional 2-line alpha numeric, 8 characters/line
- **Display Resolution:** RH: 0.1%, 0.1°F (0.1°C)
- **Weight:** Duct mount: .616 lb (.3 kg); OSA: 1 lb (.45 kg)
- **Agency Approvals:** CE

**ACCESSORIES**
- **Model:** A-RHP-FC
- **Description:** Replacement plastic hydrophobic filter
- **Model:** A-RHP-RT
- **Description:** Retrofit tool for fitting O-ring on RHP-D/M models for new filter

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