The Series RHP-E/N Wall Mount Humidity/Temperature/Dew Point Transmitters are the most versatile room transmitter on the market. The stylish housing is well vented to provide air flow across the sensor to improve measurement accuracy. The humidity and the dew point are measured using a capacitive polymer sensor. The humidity and dew point can have either a current or voltage output, while the optional temperature output can be a current, voltage, RTD or thermistor. For models with current or voltage for the temperature output, the temperature range is field-selectable.

**APPLICATIONS**
- Reduced inventory with field selectable output
- 2% and 3% accuracies
- Wide application environments from a large selection of temperature sensors and sensing
- Reduced installation cost with combined humidity/dew point and temperature

**BENEFITS/FEATURES**
- Reduced installation cost with combined humidity/dew point and temperature sensing
- Wide application environments from a large selection of temperature sensors and 2% and 3% accuracies
- Reduced inventory with field selectable output

**ACCESSORIES**
- Remote LCD Display allows remote indication of select Dwyer wall mount transmitter for validation or certification purposes
- 100-240 VAC/VDC to 24 VDC power supply

**MODEL CHART**

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<th>Model</th>
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<td>A-449</td>
<td>Remote LCD Display</td>
<td>Allows remote indication of select Dwyer wall mount transmitter for validation or certification purposes</td>
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**SPECIFICATIONS**

**Relative Humidity Range**: 0 to 100% RH.
**Temperature Range**: -20 to 140°F (-28.9 to 60°C) for thermistor and RTD sensors.
**Dew Point Temperature Range**: -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) field-selectable ranges.
**Accuracy**: RH: Model RHP-2XXX ±2% 10 to 90% RH @ 25°C; Model RHP-3XXX ±3% 20 to 80% RH @ 25°C; Model RHP-5XXX ±5% 20 to 80% RH @ 25°C; Thermistor temperature sensor: ±0.36°F @ 77°F (±0.2°C @ 25°C); RTD temperature sensor: DIN Class B; ±0.54°F @ 32°F (±0.3°C @ 0°C); Solid state band gap temperature sensor: ±0.9°F @ 77°F (±0.3°C @ 25°C).
**Hysteresis**: ±0.8%.
**Repeatability**: ±0.1% typical.
**Temperature Limits**: Operating: -40 to 140°F (-40 to 60°C); Storage: -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 outputs: 10-35 VDC; 0-5/10 V outputs: 15-35 VDC or 15-29 VAC.
**Output Signals**: 4-20 mA loop powered outputs: 4-20 mA, 2 channels for humidity/solid state temperature sensor models (loop powered on RH). Switch selectable RH/dew point. Switch selectable normal or reverse output; 0-5/10 V outputs: 5 mA max., 2 channels for humidity/solid state temperature sensor models. Switch selectable 0-10 V/2-10 V or 0-5 V/1-5 V output. Switch selectable RH/dew point. Switch selectable normal or reverse output.
**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**: 8 s.
**Electrical Connections**: Screw terminal block.
**Drift**: <0.25% RH/year.
**RH Sensor**: Capacitance polymer.
**Enclosure Material**: Polycarbonate.
**Enclosure Rating**: IP20.
**Display**: Optional LCD; Switch selectable %RH or dew point, °F/°C.
**Weight**: 4.4 oz (125 g).

**Agency Approvals**:
- CE
- NIST

**AAD MOUNT HUMIDITY/TEMPERATURE/DEW POIN TRANSVERSERS**

**Optional LCD Display**

**ACCESSORIES**
- Remote LCD Display allows remote indication of select Dwyer wall mount transmitters for validation or certification purposes
- 100-240 VAC/VDC to 24 VDC power supply