

ITROLS



The Series RH/RHL Humidity/Temperature Transmitter is ideally suited for demanding applications. The RH/RHL series can monitor humidity or both humidity and temperature in a single device. This versatile family of transmitters contains the following standard features:

- **2% or 3% Accuracy**
- **Designer Wall, Duct, or Outside Air Models**
- **Dual 4 to 20 mA or 0 to 10 VDC Outputs on Humidity/Temperature Models**
- **Completely Recovers from 100% Saturation**
- **Field Selectable Temperature Units**

These features make the RH/RHL series ideal for building energy management systems, commercial and residential HVAC systems, clean rooms, museums, climate chambers, and other space monitoring applications.



SERIES RH/RHL

SPECIFICATIONS

Relative Humidity Range: 0 to 100% RH.

Temperature Range: -40 to 140°F (-40 to 60°C).

Accuracy: ±2% @ 10 - 90% RH; ±0.9°F @ 72°F (±0.3°C @ 25°C).

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: 10-35 VDC.

Output Signal: 4-20 mA, 2 channels for humidity/temperature models (loop powered on RH).

Response Time: 5 to 15 seconds.

Electrical Connections: 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: Solid state band gap.

Housing Material: Wall Mount: ABS; Duct Mount: PBT; OSA: Polycarbonate.

Enclosure Rating: NEMA 4X (IP65) for OSA mount only.

Display: Optional 2-line alpha-numeric, 8 characters/line (duct mount only).

Display Resolution: RH: 0.1%; 0.1°F (0.1°C).

Weight: Wall Mount: 0.5 lb (0.25 kg); Duct Mount: 0.6 lb (0.3 kg); OSA: 1 lb (0.45 kg).

Agency Approvals: CE.