

225-RHP Series Humidity/Temperature Transmitters

The **225-RHP Series Transmitters** offer high accuracy, long term stability, and reliable operation. State of the art sensor technology allows the humidity sensor to fully recover from 100% saturation and is calibration-free. The capacitive polymer humidity sensor and solid state temperature sensors are protected by a removable sintered filter. With the addition of the **380-RHRS Solar Radiation Shield** the sensor is suitable for outside air monitoring.

Features

- High accuracy, calibration free capacitive humidity sensor
- Solid state band-gap temperature sensor
- 4-20 mA or 0-5 volt output options
- Field-replaceable sensor element

Applications

- Agriculture, Livestock Operations, Greenhouse Monitoring
- Building Automation Systems
- Climate Monitoring/Weather Stations
- Evaporation Measurement Stations
- Solar Power Generation Facilities



225-RHP Transmitter



225-RHP Transmitter with 380-RHRS Solar Radiation Shield

Approvals

- CE approval

Specifications

Relative Humidity Range	0 to 100% RH
Temperature Range	-40 to 140°F (-40 to 60°C)
Accuracy, RH	±2% 10 to 90% RH @ 25°C
Accuracy, Temperature	±0.9°F @ 72°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	225-RHP-2S11: 10 to 35 VDC; Output signal: 4 to 20 mA (loop powered). 225-RHP-2S33: 15 to 35 VDC or 15 to 29 VAC; Output signal: 0 to 5 V @ 5 mA max.
Response Time	15 seconds
Electrical Connections	Removable screw terminal block
Drift	<1% RH/year
RH Sensor	Capacitance polymer
Temperature Sensor	Solid state band gap
Enclosure / Rating	Polycarbonate / NEMA 4X (IP65)
Cable	not included
Weight / Shipping	Transmitter only: 1 lb (.45 kg) / 2 lbs (.9 kg) Transmitter and Solar Radiation Shield: 2 lbs (.9 kg) / 3 lbs (1.4 kg)
Agency Approvals	CE

Ordering Information

225-RHP-2S11	Humidity/Temperature Transmitter 4-20 mA output
225-RHP-2S33	Humidity/Temperature Transmitter 0-5 volt output
380-RHRS	Solar Radiation Shield with mounting bracket (fits ¾" to 1 ½" IPS)
330-0524	Cable, 5 conductor, 24 AWG, shielded, per foot