

DESCRIPTION: (Humidity transmitter with temperature sensor)

The RH series transducers are intended specifically for use in environmental monitoring and control systems and comes in a variety of enclosures. Its state-of-the-art design combines microprocessor based linearization and temperature correction with a world class capacitance sensor. Reliability and accuracy for even the most critical of measurements.

Excellent long-term stability and quick response time combined with temperature compensation make the RH series transducers an ideal choice in the HVAC market. Various models offer accuracy within 2%, 3%, or 5%.

The RH100 Wall Mount comes in a very compact enclosure which mounts directly to a single electrical box. The RH200 Duct comes standard with a 230 mm (9-inch) stainless steel probe, and an ABS enclosure is provided for wire terminations. The RH300 OSA comes mounted in a weatherproof sun and wind shielded enclosure.

Temperature sensor options of RTD's and thermistors are available in all three configurations.

SPECIFICATION: (Humidity)

System Accuracy:	±2, 3, or 5% RH, 5% to 95% RH
Compensated Temp.:	-40°C to 85°C (-40°F to 185°F)
Sensor Construction:	Thermoset Polymer based capacitive
Protection:	60 micron HDPE cover
Repeatability:	±0.5% RH
Hysteresis:	±1% of span max
Linearity:	±0.5% RH typical
Response Time:	15 seconds @ 25°C
Stability:	±1% RH typical at 50% RH in 5 yrs.
Output Signal Types: (jumper selectable)	4 – 20mA 0 – 1 VDC 0 – 5 VDC 0 – 10 VDC
Power Supply:	12 – 35 VDC at unit (Loop Powered) 24 VAC/DC nominal ±10% (3-wire)
Wiring Connections:	Screw Terminals (14 to 22 AWG)
Optional Temperature sensor:	100 Ohm RTD, 1000 Ohm RTD, thermistors and transmitters

Note: all output signals are scaled 0-100% RH

RH100B



SPECIFICATION: (Temperature Transmitter)

Supply Voltage:	24VDC/VAC
Output:	4-20mA, 0-5VDC or 0-10VDC
Accuracy:	±0.1% of span
Operating temp:	0°C – 70°C (32°F – 158°F)
OSA operating temp:	-40°C – 85°C (-40°F – 185°F)
Temperature sensor:	1000Ω RTD standard 100Ω RTD optional

RH200A c/w LCD option



RH300A

