



S/S ROOM HUMIDITY TRANSMITTER

RH100S Series

The RH100S series incorporates:

- Highly stable RH sensor element
- Choice of analog outputs
- Choice of precision temperature sensors
- AC/DC operation

PRODUCT HIGHLIGHTS

- Humidity range: 0-100%
- Accuracy available 2%, 3%, & 5%
- S/S wall plate with gasket



SPECIFICATIONS

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SENSOR TYPE	Thermoset polymer based capacitive
SENSOR PROTECTION	100 micron sintered filter
OPTIONAL TEMPERATURE SENSOR	Various RTD's and thermistors available as 2-wire resistance outputs
ACCURACY	±2, 3, or 5 %RH (5 to 95 %RH)
MEASUREMENT RANGE	0 to 100 %RH
HYSTERESIS	±3 %RH maximum
RESPONSE TIME	15 seconds typical
STABILITY	±1 %RH typical at 50 %RH in 5 years
OPERATING TEMPERATURE	0 to 70°C (32 to 158°F)
OPERATING HUMIDITY	0 to 95 %RH non-condensing
POWER SUPPLY	18 to 35 Vdc, 20 to 26 Vac
CONSUMPTION	22 mA maximum
INPUT VOLTAGE EFFECT	Negligible over specified operating range
PROTECTION CIRCUITRY	Reverse voltage protected and output limited
OUTPUT SIGNAL	4-20 mA current loop, 0-5 Vdc, 0-10 Vdc, or 0-1 Vdc (jumper selectable)
OUTPUT DRIVE @ 24 VDC	Current: 550Ω max Voltage: 10,000Ω min
INTERNAL ADJUSTMENTS	Clearly marked ZERO and SPAN pots
ENCLOSURE	Stainless steel, IP50 (NEMA 1)
DIMENSIONS	70mm W x 114mm H x 41mm D (2.75" x 4.5" x 1.6")
TERMINATION	Screw terminal block (14 to 22 AWG)
COUNTRY OF ORIGIN	Canada