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 maxVoltage: 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 |