ROOM HUMIDITY TRANSMITTER

RH100B Series

The RH100B series incorporates:

* Highly stable RH sensor element
* Field selectable outputs
* Choice of precision temperature sensors
* AC/DC operation s

PRODUCT HIGHLIGHTS

* Humidity range: 0-100%
* Accuracy available 2%, 3%, & 5%
* attractive, low profile enclosure

SPECIFICATIONS

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| SENSOR TYPE  | Thermoset polymer based capacitive |
| OPTIONAL TEMPERATURE SENSOR  | Various RTDs and thermistors available as 2 wire resistance output |
| ACCURACY  | ±2, 3, or 5 %RH (5 to 95 %RH) |
| MEASUREMENT RANGE  | 0 to 100 %RH |
| TEMPERATURE DEPENDENCE  | ±0.05 %RH/°C |
| HYSTERESIS  | ±1.5 %RH maximum |
| REPEATABILITY  | ±0.5 %RH typical |
| LINEARITY  | ±0.5 %RH typical |
| SENSOR 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, 15 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  | White ABS, IP20 (NEMA 1) |
| DIMENSIONS  | 70mm W x 114mm H x 30mm D (2.75” x 4.5” x 1.2”) |
| TERMINATION  | Screw terminal block (14 to 22 AWG) |
| COUNTRY OF ORIGIN  | Canada |