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 max  Voltage: 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 |