ROOM HUMIDITY/TEMPERATURE TRANSMITTER

RH110B Series

The RH110B series incorporates:

* Highly stable RH sensor element
* Precision Platinum RTD for Temperature
* Choice of analog outputs
* AC/DC operation

PRODUCT HIGHLIGHTS

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

SPECIFICATIONS

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| HUMIDITY SENSOR TYPE  | Thermoset polymer based capacitive |
| TEMPERATURE SENSOR TYPE | 1000Ω Platinum, IEC 751, 385 Alpha, thin film Class B: ±0.3°C @ 0°C |
| HUMIDITY ACCURACY | ±2, 3, or 5 %RH (5 to 95 %RH) |
| TEMPERATURE ACCURACY | ±0.1% of span |
| MEASUREMENT RANGE | 0 to 100 %RH |
| TEMPERATURE DEPENDENCE | ±0.05 %RH/°C |
| HYSTERESIS  | ±1.5 %RH maximum |
| LINEARITY  | ±0.5 %RH typical |
| REPEATABILITY  | ±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 |
| 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 |
| OUTPUT DRIVE @ 24 VDC | 550Ω max |
| 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 |