ROOM HUMIDITY/TEMPERATURE TRANSMITTER

HTRC Series

The HTRC series incorporates:

* Precision RH and temperature sensing elements
* Selection of analog outputs
* Options such as override, fanspeed switch and communications jack
* LCD Display available
* AC/DC operation

PRODUCT HIGHLIGHTS

* Humidity Range: 0 to 100%
* Accuracies available: 2%, 3% & 5%
* attractive, low profile enclosure

SPECIFICATIONS

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| TEMPERATURE | **Sensor:** Curve-matched thermistor  **Accuracy:** ±0.2°C (±0.4°F)  **Range:** 0 to 35°C (32 to 95°F) or 0 to 50°C (32 to 122°F), programmable  **Offset:** ±5.0°C programmable  **Display Units:** °C or °F programmable  **Display Resolution:** 0.1° < 100°, 1° > 100° |
| HUMIDITY | **RH Sensor:** Thermoset polymer based capacitive  **Accuracy:** ±2, 3, or 5 %RH from 5 to 95 %RH  **Range:** 0 to 100 %RH non-condensing  **Temperature Compensation:** 0 to 50°C (32 to 122°F)  **Hysteresis:** ±3 %RH  **Response Time:** 15 seconds typical  **Stability:** ±1.2 %RH typical @ 50 %RH in 5 years  **Offset:** ±20 %RH, programmable |
| POWER SUPPLY | 24 Vac/dc ±10% (non-isolated half-wave rectified) |
| CONSUMPTION | 60 mA max @ 24 Vdc |
| INPUT VOLTAGE EFFECT | Negligible over specified operating range |
| PROTECTION CIRCUITRY | Reverse voltage protected and output limited |
| OUTPUT SIGNAL | 4-20 mA active (sourcing), 0-5 Vdc or 0-10 Vdc (specify when ordering) |
| OUTPUT RESOLUTION | 10 bit for all signals |
| OUTPUT DRIVE @ 24 VDC | **Current:** 550 Ω maximum  **Voltage:** 10K Ω minimum |
| PROGRAMMING/SELECTION | Via internal push buttons and on-screen menu |
| OPERATING CONDITIONS | 0 to 50°C (32 to 122°F), 0 to 95 %RH non-condensing |
| WIRING CONNECTIONS | Screw terminal block (14 to 22 AWG) |
| ENCLOSURE | White ABS - IP30 (NEMA 1) 84mm W x 119mm H x 29mm D (3.3” x 4.7” x 1.15”) |
| OPTIONAL LCD DISPLAY | **Range:** 00.0 to 99.9, 3 digit  **Symbols:** °C, °F %RH, OCC  **Display Size:** 38.1mm x 16.5mm (1.5” x 0.65”)  **Digit Height:** 11.43mm (0.45”)  **Backlight:** Enable/disable via menu |
| OPTIONAL OVERRIDE | **Type:** Front panel, momentary push button, 2 wire dry contact  **Switch Ratings:** N.O., SPST, 50 mA @ 12 Vdc |
| OPTIONAL OCCUPIED INPUT  (INCLUDED WITH OVERRIDE OPTION) | **Type:** Digital input, 0-5 Vdc or dry contact to common  **Logic:** Active low or active high, programmable  **Action:** Causes “OCC” segment to light in display |
| OPTIONAL FAN SPEED SWITCH | **Type:** Side panel mount, 5 position switch  **Range:** Off, Auto, Low, Medium, High  **Signal:** Resistance: 0, 2, 4, 6, 8 KΩ, 2 wire output (custom ranges avail.) |
| OPTIONAL NETWORK COMM. | **3.5mm Phono Jack:** Ring/Mid/Tip connections to a 3 pin terminal block |
| COUNTRY OF ORIGIN | Canada |