Precision humidity/temperature control/sensing

FEATURES:

- Highly stable RH sensor element
- Humidity range: 0-100%
- Accuracy available 2%, 3%, & 5%
- Choice of precision temperature sensors
- LCD display available
- Field selectable outputs

DESCRIPTION:

The Humidity/Temperature transmitter incorporates two sensors in one attractive wall mount enclosure for the most efficient environmental monitoring and control system. It uses a field-proven RH sensor to monitor relative humidity and a curve-matched thermistor to measure temperature and provides two analog outputs of either 4-20 mA, 0-5Vdc or 0-10 Vdc .

Additional options include an occupancy override button, a communication jack, a fan speed switch or a LCD display.

SPECIFICATIONS:

RH Sensor.. Thermoset polymer based capacive
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˚-122˚F)
Hysteresis .... ± 3% RH
Response Time................................ 15 seconds typical
Stability .... ±1.2% RH typical @ 50% RH in 5 years
O set .... ±20% RH, programmable
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
Power Supply.................................. 24 Vac/dc ±10% (non-isolated half-wave recti ed)
Consumption .... 60 mA max @ 24 Vdc
Input Voltage E ect .... Negligible over speci ed operating range
Output Signal.................................. 4-20 mA active (sourcing), 0-5 Vdc or 0-10 Vdc
Output Drive @24 Vdc .... 550 ohm max. for current, 10K ohms min. for voltage
Output Resolution .... 10 bit PWM
Protection Circuitry....................... Reverse voltage protected and output limited
Operating Conditions .... 0˚ to 50˚C (32˚-122˚F), 0-95% RH non-condensing
Programming/Selection .... Via intenal push buttons and on-screen menu
Wiring Connections....................... Screw terminal block (14 to 22 AWG)
Enclosure Size................................ 84mmW x 119mmH x 29mmD (3.3" x 4.7" x 1.15")

OPTIONS:

LCD DISPLAY
Range.. 00.0 to 99.9, 3 digit
Symbols .... ˚C, ˚F, %RH
Display Size..................................... 38.1 x 16.5 mm (1.5" x 0.65")
Digit Height .... 11.43 mm (0.45")
Backlight... Enable/disable via menu

OVERRIDE
Type... Front panel, momentary push-button, 2 wire dry contact
Switch ratings .... N.O., SPST, 50 mA @12 Vdc

FAN SPEED SWITCH
Type... Side panel mount, 5 postion switch
Range.. O , Auto, Low, Medium, High
Signal .... Resistance: 0, 2, 4, 6, 8 KΩ (Custom ranges available)