

VH7200 SERIES

Standalone Humidity Controller



The VH7200 humidity controller family features a complete embedded humidity control solution with an intuitive backlit LCD display that walks the installer through the configuration steps, making the process extremely simple. Accurate relative humidity control is achieved via the product's unique PI time proportional control algorithm, which virtually eliminates humidity offset associated with traditional, differential-based humidity controllers.

All models contain a user-controlled binary input, which monitors an electrode humidifier canister service status or may be used as a general purpose service indicator. Models are available with more advanced features such as discharge humidity, proportional high limit, and indoor humidity setpoint reset based upon outdoor air temperature.

SPECIFICATIONS

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|------------------------------------|----------------------------------------------------------|
| Humidistat Power Requirements | 19 to 30 Vac; 50 or 60 Hz; 2 VA (RC & C) Class 2 |
| Operating Conditions | 0 to 50 °C (32 to 122 °F); 0 to 95% RH non-condensing |
| Storage Conditions | -30 to 50 °C (-22 to 122 °F); 0 to 95% RH non-condensing |
| Resolution: Temp Humidity | ±0.1 °C (±0.2 °F) ±0.1% |
| Control Accuracy Humidity | ±3% RH from 20 to 70% RH at 21 °C (70 °F) |
| Humidification Setpoint Range | 10 to 90% RH |
| Dehumidification Setpoint Range | 15 to 95% RH |
| Outdoor Air Temp Range | -40 to 50 °C (-40 to 122 °F) |

PI time proportioning

PI time proportioning algorithm for increased comfort, accuracy, and energy savings

Binary input

Binary input for added functionality

Local configuration

Unique local configuration utility...minimizes parameter tampering

Lockable keypad

Tamper resistant, no need for thermostat guards

EEPROM memory

No loss of program

Optional remote humidity sensors

Increased flexibility and functionality

APPLICATIONS

- Humidifier
- Dehumidifier/air exchanger
- Humidity high limit sensor
- Outdoor air temperature sensor

| | |
|-----------------------------|---------------------------------------------------------|
| Binary Inputs | Relay dry contact only across Scom and DI1 terminals |
| Contact Output Rating | Each relay output: 30 Vac, 1A max.; 30 Vac, 3 A in-rush |
| Analog Output Rating | 0 to 10 Vdc into 2k Ω resistance min. |
| Wire Gauge | 18 gauge maximum, 22 gauge recommended |
| Dimensions | 4.94" x 3.38" x 1.13" (12.5 x 86 x 30 mm) |
| Approximate Shipping Weight | 0.75 lb (0.34 kg) |

WARRANTY

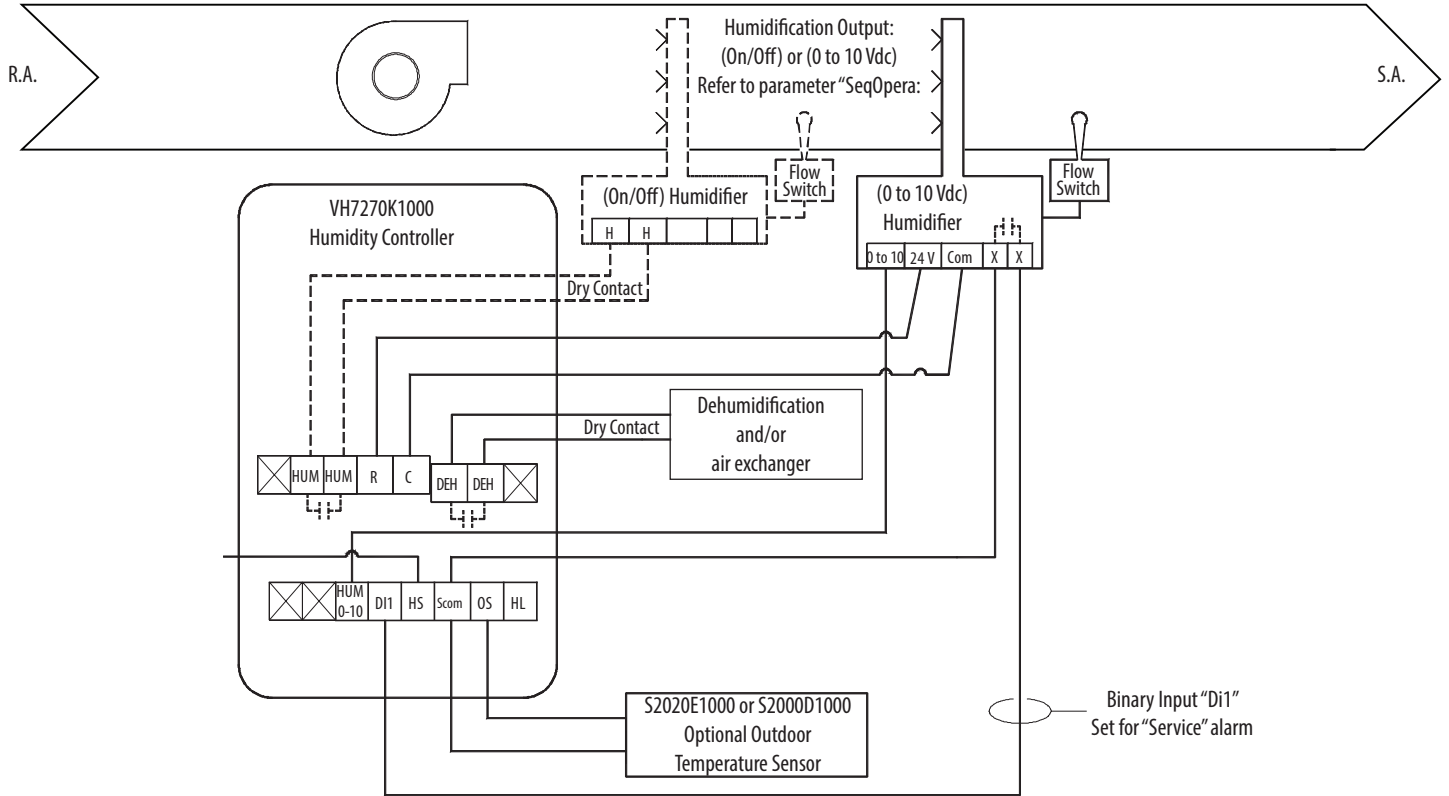
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|------------------|---------|
| Limited Warranty | 2 years |
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AGENCY APPROVALS



UL: 873 (US) and CSA C22.2 No. 24 (Canada), File E27734 with CCN , XAPX (US) and XAPX7 (Canada)
 FCC: Compliant to CFR 47, Part 15, Subpart B, Class A (US)
 Industry Canada: ICES-003 (Canada)

WIRING EXAMPLE



ORDERING INFORMATION

| PART NUMBER | DESCRIPTION |
|-------------|------------------------------------|
| VH7200A1000 | Humidistat, ON/OFF |
| VH7270F1000 | Humidistat, Analog Outputs |
| VH7270K1000 | Humidistat, Analog Outputs, ON/OFF |

DIMENSIONAL DRAWING

