

Rotronic F3V-31P-001W Humidity Transmitter



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\$115.00

In Stock

Qty Available: 1

Used and in Excellent Condition

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F Series Humidity and Humidity-Temperature Transmitters



Wall Mount

- Well Proven Humidity Sensor with Exceptional Durability and Stability
- High Accuracy and Fast Response Over the Full Range of Humidity
- Easy Installation/Replacement with Base Plate and Plug-In Sensor/Electronics Module
- Designed for Fast One-Point, On-Site Calibration
- Maintenance Interval of 1 to 2 Years

ro-tronic
instrument corp

160 E. MAIN STREET, HUNTINGTON, NY 11743
631-427-3898 • FAX 631-427-3902 • 1-800-628-7101

General Information

Transmitters of the F series are used to measure humidity or a combination of humidity and temperature in commercial HVAC installations. The electronic circuitry is either of the 2-wire loop powered type or of the 3-wire type. Linearized output signals (DC current or voltage) are provided for transmission over a length of cable to a remote display, recorder, controller or data processing unit.

The F series features the ROTRONIC HYGROMER™ capacitive humidity sensor. This well proven sensor offers exceptional durability and stability in all kinds of environments. This fact is reflected in the ROTRONIC 3 year warranty—the best in the industry. Reliability is further enhanced by the easy-to-perform field calibration. Measurement accuracy and fast response are provided over the entire range of humidity conditions, even when the sensor is exposed to extremely high or low humidity over long periods of time. An electronic compensation circuit maintains the accuracy of humidity measurement at all temperatures.

F series transmitters include a base plate and a module (sensor and electronics) which plugs into the base plate. The base plate can be installed and wired without the module at the same time as general electrical work is being done. During that period of time, the module can safely be stored away.

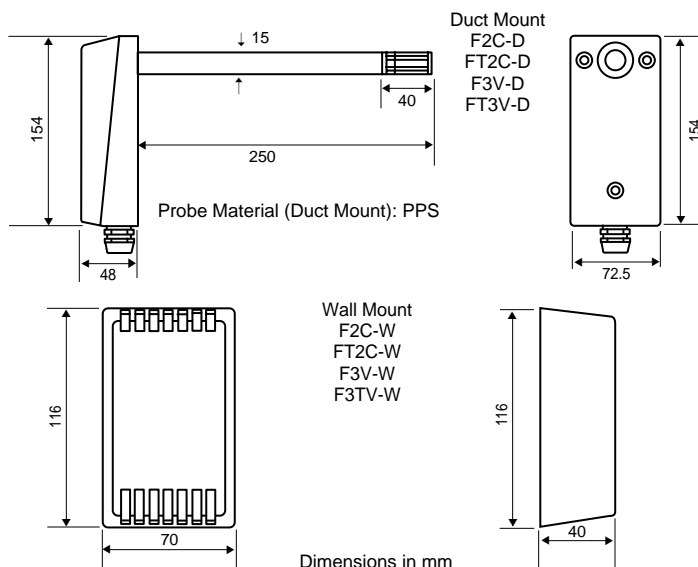
SPECIFICATIONS

| | |
|--|--|
| Humidity Sensor | ROTRONIC HYGROMER™ C94 |
| Temperature Sensor | Pt100 RTD |
| Humidity Measuring Range | 10..100 %RH |
| Humidity Output Range | 0-100%RH |
| Temperature Measuring Range | Wall Mount 32..122°F (0..50°C) Duct Mount -5..122°F (-20..50°C) |
| Temperature Output Range..... | 0..100°F |
| Operating Temperature at Electronics | 32..122°F (0..50°C) |
| Accuracy of Humidity Measurement | ±2%RH (20-90% RH) @ 68..77° (20..25°C) ±3%RH (90-95% RH) |
| Accuracy of Temperature Measurement | ±0.7°F (0.4°C) |
| Output Signals (linear) | F2C/FT2C: 4-20 mA (max. load 500Ω) F3V/FT3V: 0-5 VDC (min. load 1000Ω) |
| Repeatability | ±0.6%RH and ±0.2°F (±0.1°C) |
| Humidity Sensor Stability | better than 1%RH over a year |
| Response Time (without filter) | 10 seconds (%RH and temperature) |
| Calibration Potentiometers..... | 1 for Humidity, 1 for Temperature |
| Power Requirements | F2C/FT2C: 10..35VDC; min. 10V + 0.02 x Load F3V/FT3V: 15..35VDC/24VAC - 32 mA |
| Sensor Protection | Wall Mount: none Duct Mount PE15 |
| Probe Dimensions & Materials | Duct 250 x 15mm Polyethylene Sulfide |
| Weight | 0.7lb. (300 g) |
| Case Material | ABS |
| Case Protection | Duct Mount IEC IP 54 (similar to NEMA1) |

The F series is available in the following configurations:

| MODEL | MEASUREMENT | CIRCUIT TYPE | INSTALLATION |
|--------|--------------------|---------------------|---------------------|
| F2C-W | Humidity | 2-Wire Loop Powered | Wall (Space) |
| FT2C-W | Hum. + Temperature | 2-Wire Loop Powered | Wall (Space) |
| F2C-D | Humidity | 2-Wire Loop Powered | Duct (Through Wall) |
| FT2C-D | Hum. + Temperature | 2-Wire Loop Powered | Duct (Through Wall) |
| F3V-W | Humidity | 3-Wire | Wall (Space) |
| FT3V-W | Hum. + Temperature | 3-Wire | Wall (Space) |
| F3V-D | Humidity | 3-Wire | Duct (Through Wall) |
| FT3V-D | Hum. + Temperature | 3-Wire | Duct (Through Wall) |

MECHANICAL CONFIGURATIONS



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