

ARTISAN®
TECHNOLOGY GROUP

Your **definitive** source for quality pre-owned equipment.

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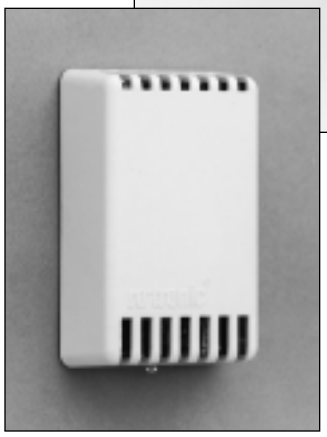
Expert team | Trust guarantee | 100% satisfaction

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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

rotronic instrument corp

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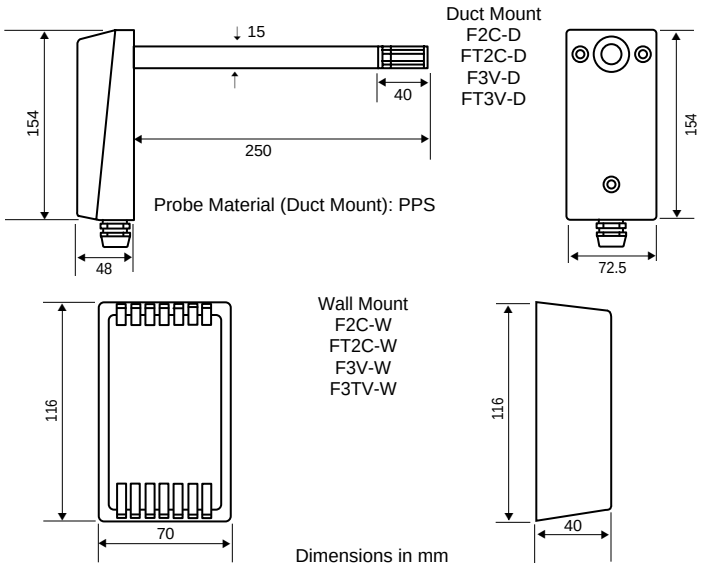
SPECIFICATIONS

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



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.

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