

- >> Highly stable RH sensor element
- >> Humidity range: 0-100% (0-10V signal)
- >> Accuracy 3%
- >> NTC 10k element for temperature
- >> LCD display available
- >> Field selectable outputs
- >> AC/DC operation



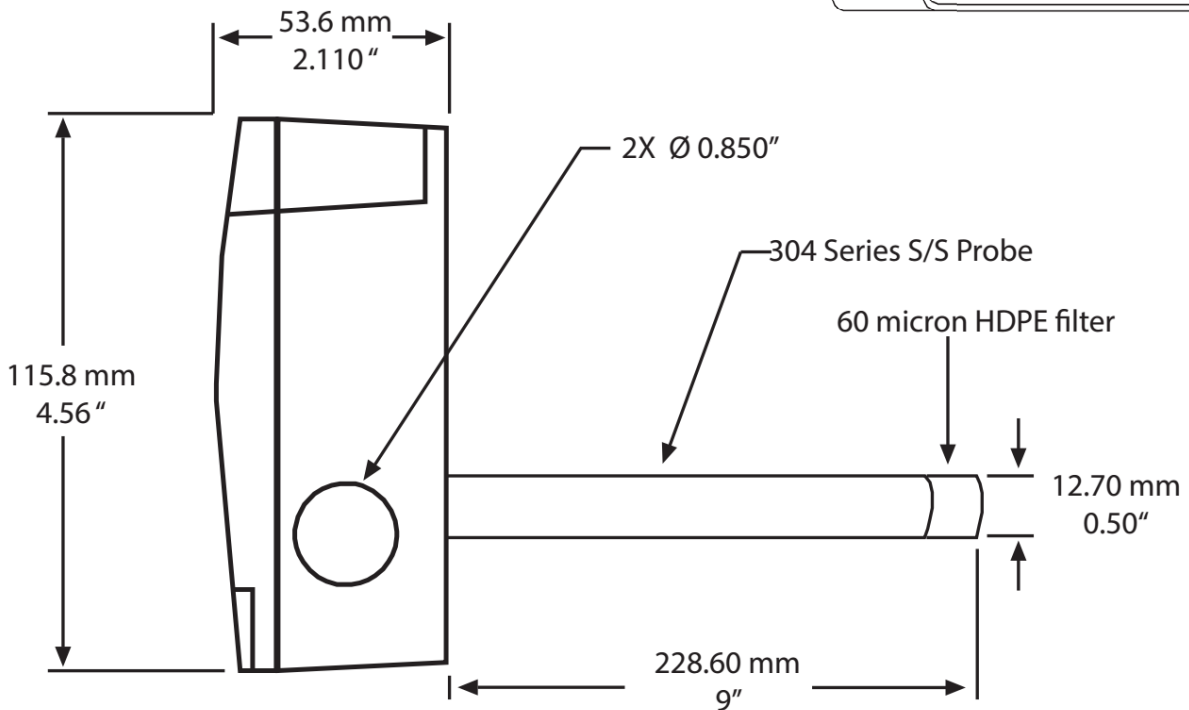
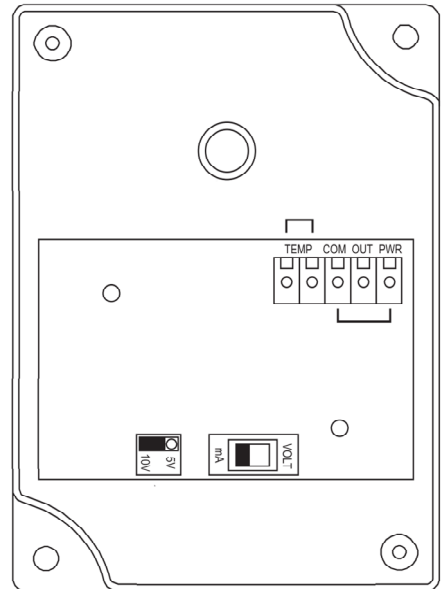
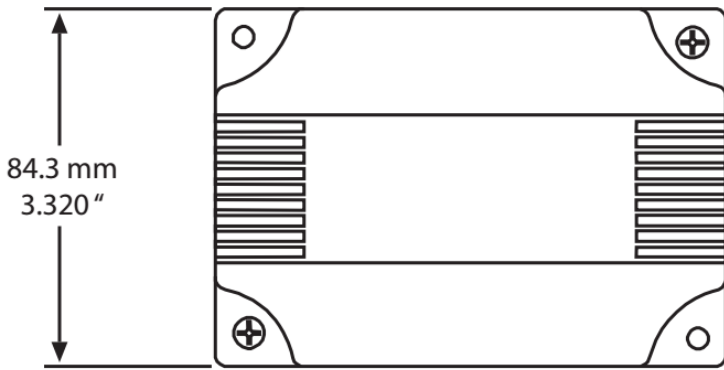
Air duct humidity and temperature measurement

The FX-RHTES-D humidity transmitters are designed for use in environmental monitoring and control systems where high performance and stability are demanded. It's state-of-the-art design combines digital linearization and temperature compensation with a world class capacitive sensor for reliability and accuracy in even the most critical applications. Various models cover many aspects of RH measurement and several optional features are available to meet virtually all HVAC applications.

Technical features

Sensor Type:	Thermoset Polymer based Capacitive
Range:	0 to 100% RH
Accuracy:	±3% RH (5 to 95% RH) or ±5% RH (5 to 95% RH)
Response:	15 Seconds typical
Temp Dependence:	±0.05% RH/ °C
Hysteresis:	±1.5% RH maximum
Repeatability:	±0.5% RH typical
Linearity:	±0.5% RH typical
Operating Range:	-40 to 85°C (-40 to 185°F)
Power Supply:	18 to 30 Vdc, 15 to 26 Vac
Consumption:	22 mA maximum
Protection Circuitry:	Reverse voltage protected and output limited
Output Signal:	4-20 mA current loop, 0-5 or 0-10 Vdc (jumper-selectable)
Output Drive @ 24 Vdc:	550 ohms max for current output 10K ohms min for voltage output
Internal Adjustments:	Clearly marked ZERO and SPAN pots
Probe:	230 mm (9") probe length x 12.7 mm (1/2") diameter stainless steel with porous filter
Temperature Element:	NTC 10k
Enclosure:	ABS - UL94-5VB - IP61 (NEMA 2)
Termination:	Screw terminal block (14 20 22 AWG)
Optional LCD:	3 digit for 00.0 to 99.9% RH, 24 x 11mm
Manufacturing Process:	ISO9001

*In order to maintain the published NEMA/IP ratings, properly rated conduit or cable gland adapters must be used.



Part numbers

FX-RHTES-D
FX-RHTES-D-LCD
FX-RHTES-D-e
FX-RHTES-D-LCD-e

RH: 0-5/10 Vdc or 4-20 mA, 3% accuracy **TE:** NTC 10k with 3-digit LCD display
RH: 0-5/10 Vdc or 4-20 mA, 5% accuracy **TE:** NTC 10k with 3-digit LCD display