

Outdoor humidity and temperature sensor

- »» Highly stable RH sensor element
- »» Humidity range: 0-100% (0-10V signal)
- »» Accuracy 2%
- »» NTC 10k element for temperature
- »» LCD display available
- »» Field selectable outputs
- »» AC/DC operation



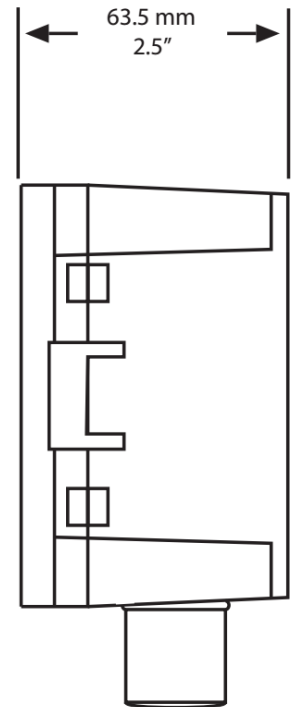
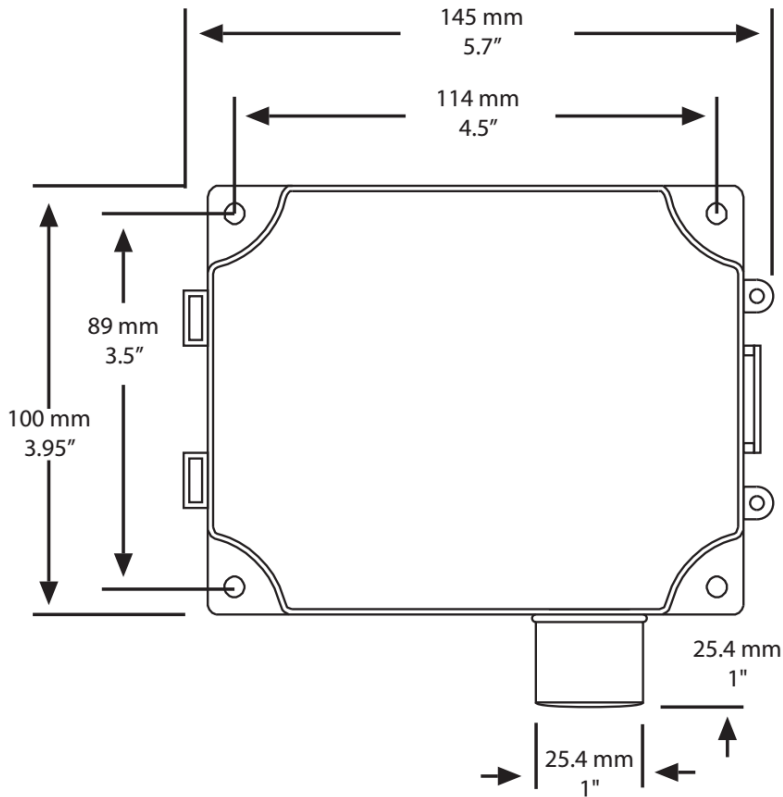
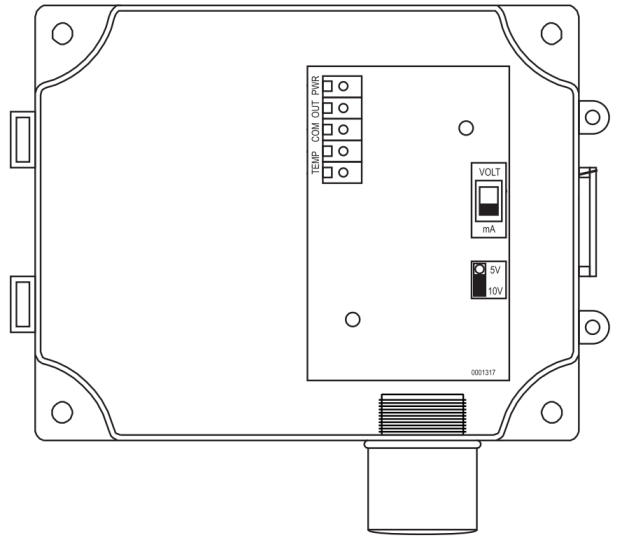
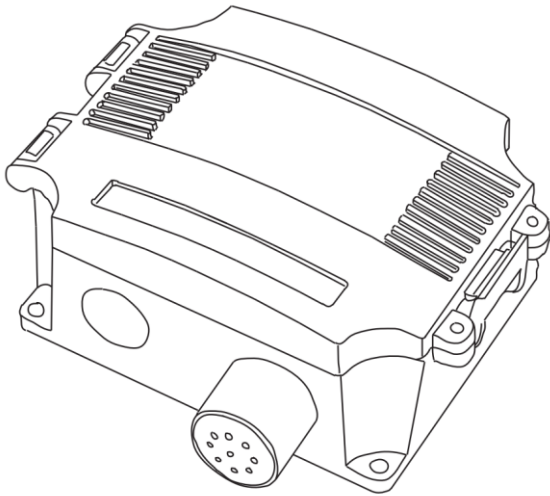
Outdoor humidity and temperature measurement

The FX-RHTES-O humidity sensor uses a highly accurate and reliable Thermoset Polymer based capacitance humidity sensor together with state-of-the-art digital linearization and temperature compensated circuitry to monitor humidity levels. The sensor is encapsulated in vented probe that provides protection from rain, wind and direct sunlight. A hinged, gasketed weatherproof ABS enclosure provides easy of installation and protection from the elements. FX-RHTES-O has NTC 10k temperature element.

Technical features

Sensor Type:	Thermoset Polymer based Capacitive
Range:	0 to 100% RH
Accuracy:	±2% 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
Temperature Element:	NTC 10k
Enclosure:	ABS, UL94-5VB, IP65 (NEMA 4X)
Termination:	Screw terminal block (14 20 22 AWG)
Manufacturing Process:	ISO9001

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



Part number

FX-RHTES-O

RH 0-5/10 Vdc or 4-20 mA, TE NTC 10k