

**HUMIDITY TRANSDUCER- 5.0%, 3.0%, 2.0%; 20-80&10-90% RH****WALL OR DUCT MOUNTING SERIES H-122 (4-20mA, or 1-5vdc 2 wire loop, or optional 0-5, 0-10vdc 3 wire output)****DESCRIPTION:**

The BEC H-122 Series Humidity Transducer is a 4-20 mA, 2 wire loop signal output device with accuracies of + or - 5.0%, + or - 3.0%, or + or - 2.0%, and 20-80% RH or 10-90% RH spans.

The 4-20 mA, 2 wire output signal can be converted through an internal load resistor of 250 ohms @0.5% max. to a 1-5 vdc, 2-wire output. The H-122 features a high degree of sensitivity and repeatability, a wide humidity range, as well as temperature compensation.

Optional 0-5 or 0-10 Vdc 3-wire output is available.

The transmitter/transducer assembly is intended specifically for use in Energy Management Automation and Process Computer Control and Monitoring Systems.

Design is compact with simple installation.

FEATURES:

- *ECONOMICAL
- *COMPACT ENCLOSURE
- * 10 SECOND RESPONSE TIME
- * AIRBORNE PARTICLE RESISTANT
- * CHOICE OF ACCURACIES
- * TEMP. SENSOR OUTPUTS
- * OPTIONAL OUTPUT SIGNALS
- * CONFORMAL COATED CIRCUITRY

SPECIFICATIONS:**GENERAL**

Accuracy:	+ or - 2%, 3%, 5% (includes hysteresis, stability, and linearity)
Hysteresis:	+ or - 1% of RH, from 10-90% RH
Stability:	+ or - 2% RH per 2 years typical
Linearity:	+ or - 1% RH typical
Sensing Element:	Thin film polymer with 40 micron filter
Temperature Effect:	Negligible between 32° and 122°F (0° and 50°C)
Time Constant:	60sec. in slow moving air

ELECTRICAL**Power requirement:**

4 to 20 mA and	
1 to 5 VDC:	12 to 35 VDC @4 to 20mA
0 to 5VDC and	
0 to 10 VDC:	12 to 35 VDC @3mA

Signal Output:

Current:	4 to 20 mA loop current, 2 wire power DC: maximum load resistance at 12 VDC is 0 ohms at 35 VDC is 1150 ohms
Voltage:	0 to 5 VDC, 0 to 10 VDC, or custom; minimum load resistance for 0 to 5 VDC is 1K ohms, and for 0 to 10 VDC is 2K ohms.

HUMIDITY

Range:	0 to 100% RH
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PHYSICAL

Dimensions:	See outline drawing
Weight:	2.2 oz. (62.5g)
Enclosure:	T100
Material:	Lustran 1-240

ENVIRONMENTAL**Operating:**

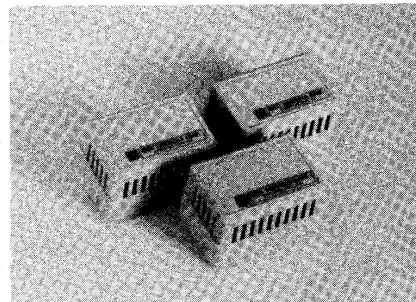
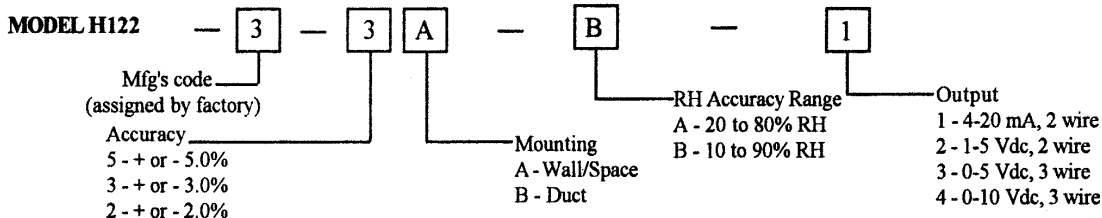
Temperature:	-4° to 140°F (-20° to 60°C)
Humidity:	0 to 95% RH non-condensing

Storage:

Temperature:	-4° to 140°F (-20° to 60°C)
Humidity:	0 to 95% RH non-condensing

Medium:

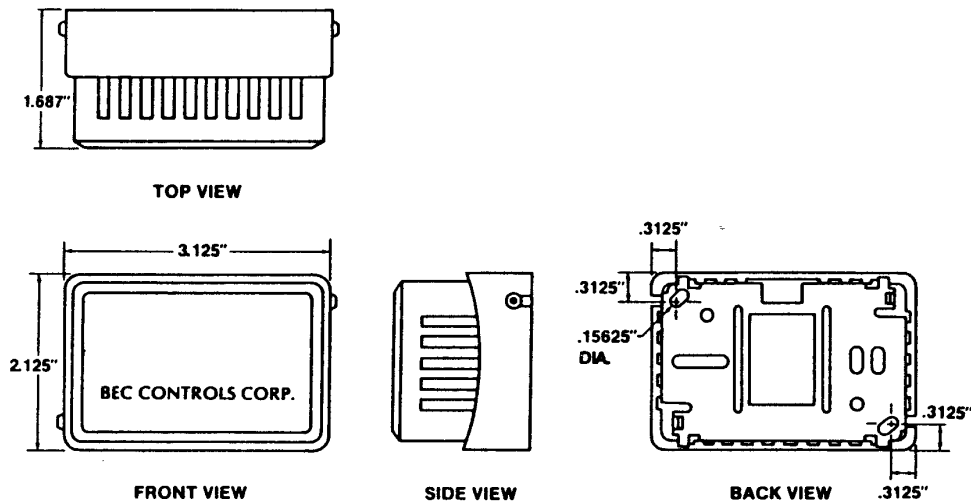
Air free of vapors that attack plastics such as Acetone

ORDERING INFORMATION:



SERIES H-122 HUMIDITY TRANSDUCER- 5.0%, 3.0%, 2.0%; 20-80 & 10-90% RH

WALL MOUNT



DUCT MOUNT

