

Humidity Sensor – Low Cost OEM

This data sheet describes the Cambria Humidity Sensor. The rugged transducer measures atmospheric pressure air with good accuracy and resolution. The unit is made to order at the OEM level. Standard features and characteristics are listed below

Applications

- Dessication units
- Vapor Recovery Systems
- Automotive
- Critical Facilities

Features

- Final form factor to client spec
- 4% accuracy
- Humidity to 0%
- Easy to use
- Optional barometric pressure sensor
- Digital, Analog, 4-20ma outputs per client request.



Preliminary Specifications

Measurement range:	RH 0 to 100 %RH
Relative Humidity Accuracy	(10% to 95%RH) $\pm 3 \pm 5$ %RH)
Operable sensor temp range:	T _a -40 to +110 °C
Humidity response time:	5 seconds typical
Average Accuracy, Linearity & hysteresis:	$\pm 4\%$
Temperature coefficient	(10°C to 50°C) T _{cc} -0.05 -0.1 %RH/°C
Sensor output:	0.5-5 V
Temp time constant:	10 sec
Humidity Hysteresis:	$\pm 1.0\%$ FS
Recovery time after 150 hours condensation:	t _w 150 ms
Repeatability:	$\pm 2\%$ FS
Input port:	½ inch NPT or custom
Warm up time:	t _w 150 ms
Case:	NEMA-4/IP65

Final case design built to client requirements. Client requested outputs: analog DC, 4-20ma, digital (various formats), frequency out. Power input 5-12 VDC. Pigtail cable standard, connector optional.