Sense HUM Series - Temperature / Humidity **Sensors**





Part No. HUM-D-100

Part No. HUM-W-100





Part No. HUM-W-100-DSP-F

Part No. HUM-R-20

ProSense HUM temperature and humidity sensors are engineered for reliability and accuracy. These versatile transducers feature built-in temperature and humidity sensors, delivering accurate measurements across a wide range: -19.9 to +60.0 °C or -4 to +140 °F for temperature and 0.0 to 99.9% RH for humidity. With flexible installation options including room, duct mount, and wall mount constructions, units can be seamlessly used in a variety of applications. The UHM series offer variable depth installation using mounting bracket included with probe units. Display models feature a clear 7-segment LED display for real-time monitoring and are available in Celsius or Fahrenheit. The units are perfect for HVAC, cleanrooms, and industrial applications requiring performance and easy integration.

Features

- · Versatile room, duct, and wall mount constructions
- 100 mm or 200 mm probe lengths on duct and wall mount
- 7-segment LED Display on certain models
- Wide temperature and humidity sensing ranges
- Two 4-20 mA outputs for temperature (Pt100 for HUM-R-PT)
- Built-in 2 m cable for duct and screw terminals for wall mount units



Application Examples



Monitor humidity and temperature in areas that require specific conditions.



Control processes based on humidity and temperature.



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HUM Series - Temperature / Humidity Sensors Selection Guide											
Part Number	Sensor Type	Insertion Length (mm)	Output	Temperature Sensing Range	Relative Humidity	Display	Displayed Temperature Range	Connection	Weight (lb)	Drawing Link	Price
<u>HUM-D-100</u>	Side insertion Bottom insertion	100			0 to 99.9%	N/A	N/A	6.5 ft [2 m], 22 AWG wire leads	0.97	PDF	\$209.00
HUM-D-200		200							1.03	PDF	\$209.00
<u>HUM-W-100</u>		100							0.97	PDF	\$209.00
<u>HUM-W-200</u>		200							1.03	PDF	\$209.00
HUM-W-100-DSP-C		100	2-channel, current, 4-20 mA	-19.9 to +60 °C [-4 to +140 °F]		2-line, 3-digit red LED	-19.9 to +60 °C		1.00	PDF	\$241.00
HUM-W-200-DSP-C		200							1.07	PDF	\$241.00
HUM-W-100-DSP-F		100					-4 to +140 °F		1.00	PDF	\$241.00
HUM-W-200-DSP-F		200							1.07	PDF	\$241.00
<u>HUM-R-20</u>		N/A				N/A	N/A	Screw terminals	0.19	PDF	\$180.00
HUM-R-PT		IW/A	2-channel (1) current, 4-20 mA, (1) Pt100, Ω						0.19	PDF	\$180.00

HUM Series - Temperature / Humidity Sensors General Specifications						
Power Supply	24 VDC					
Permissible Voltage Range	90 to 110% of rated voltage					
Power Consumption	≤ 2.4 W					
Dielectric Strength	500 VAC, 50/60 Hz for 1 min					
Noise Immunity	± 0.3 kV the square wave noise (pulse width: 1 µs)					
Vibration	0.75 mm amplitude at 10 to 55 Hz in X, Y, Z direction for 1 hr					
Vibration (Malfunction)	0.5 mm amplitude at 10 to 55 Hz in X, Y, Z direction for 1 hr					
Shock	30 G, 300 ms in each X, Y, Z direction					
Shock (Malfunction)	10 G, 100 ms in each X, Y, Z direction					
Temperature	Ambient: -20 to +60 °C [-4 to 140 °F], Storage: -20 to 60 °C [-4 to +140 °F]: non-condensing					
Certification	CE					



Scan the QR Code above or click to view the ProSense HUM series insert.

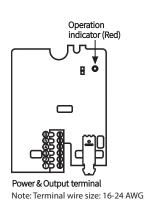


Or Sense HUM Series - Temperature / Humidity **Sensors**

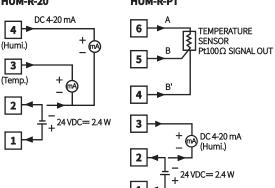
HUM Series - Temperature / Humidity Sensors Specifications										
Model	HUM-D-100	HUM-D-200	HUM-W-100	HUM-W-200	HUM-W-100-DSP-C	HUM-W-200-DSP-C	HUM-W-100-DSP-F	HUM-W-200-DSP-F	HUM-R-20	HUM-R-PT
Sensor Type	Temperature / humidity sensor									
Sensor Response Time	10 seconds									
Display Type	Non-display type 7-segment LED display							Non-display type		
Display Digit	N/A 3 digits for temperature / 3 digits for humidity						N/A			
Temperature Measuring Range	-19.9 to +60 °C [-4 to +140 °F]									
Humidity Measuring Range	0.0 to 99.9% RH									
Temperature Accuracy	± 1.0 °C (at room temperature) ± 1.8 °F (at room temperature) ± 1.0 °C (at room temperature)							om temperature)		
Humidity Accuracy	Typ. \pm 2% RH (10 to 90% RH, at room temperature) \leq \pm 2.5 % RH \pm 3% RH (30 to 70% RH room temperature) \pm 4% RH (10 to 90% R							nperature)		
Temperature Output	DC 4.20 mA (allowable impedance; < 600.0)								Pt100 Ω resistance value (TCR: 3850 ppm / °C)	
Humidity Output	DC 4-20 mA (allowable impedance: ≤ 600 Ω)									
Resolution	1/1000									
Sampling Period	0.5 second									
Protection Structure	IP65 (IEC standards) IP10 (IEC standard							standards)		
Cable Specification	ø4 mm, 4-wire, length: 2 m N/A							N/A		
Wire Specification	22 AWG (0.08 mm, 60-wire), insulator diameter: 1.25 mm N/A							N/A		

For additional technical information and installation see insert link or scan QR code on previous page.

Wiring



Screw Terminal Connection Models HUM-R-20 **HUM-R-PT**



Cable Connection Models

