

Bolt-On Thermistor Sensor with Aluminum Flag Housing

Omega's two-wire ON-931 sensor features an improved housing design and increased gauge duplex wire which gives improved strain relief and pull strength. The bolt hole accepts #3 and #4 screws, and other screw sizes are available. These can be installed on flat surfaces by either being bolted or cemented onto the surface. Applications for this type of sensor include product performance testing; climate control/HVAC; printed circuit board manufacturing and cable manufacturing; environmental chamber temperature measurement.



- Redesigned housing for improved strain relief
- Duplex wire now used for better wire protection
- Standard hole for #3 and #4 screw. #5, #6, and #8 screw sizes also available
- Small aluminum housing allows for installation on most flat surfaces
- Sensor can be bolted or cemented into place
- Accuracy is up to ± 0.1°C
- Temperature range is -80 to 100°C
- Resistance value: 2252, 3000, 5000, 10,000 or 30,000 Ohms
- Stripped ends standard, with phone plug connector available



Process Temperature Range	-80 to 100°C	
Resistance and Accuracy	2252, 3000, 5000, 10,000 and 30,000 Ohms	
	Accuracy is ± 0.1°C or 0.2°C	
Connection Type	Stripped ends. Phone plug available (add "-PP" as suffix)	
Dimensions and mounting	Barrel dimensions: 0.562 in. by 0.190 in.	
screw	Mounting body dimension: 0.31 in. x 0.31 in.	
	Screw sizes: #3 and #4 standard; other holes sizes available for #5, #6 and #8	
Cable length	40 inches, with longer lengths available	
Cable material	PFA coated duplex, 26 AWG	
Mounting Style	Bolt-on or Cement-on	

Ordering Example: ON-931-44004-40 Surface Thermistor probe with 2252 Ω thermistor element, with 0.116 in. hole for #3 or #4 screw. 40-inch PFA-coated leads, stripped ends.



ON-931 Available Resistances Resistance Suffix Range and Accuracy Resistance Value -80 to 100°C, ± 0.2°C 2252 Ω -44004 -80 to 100°C, ± 0.2°C -44005 3000Ω $-80 \text{ to } 100^{\circ}\text{C}, \pm 0.2^{\circ}\text{C}$ 10,000 Ω -44006 -80 to 100°C, ± 0.2°C 5000 Ω -44007 $-80 \text{ to } 100^{\circ}\text{C}, \pm 0.2^{\circ}\text{C}$ -44008 $30,000 \Omega$ $-80 \text{ to } 75^{\circ}\text{C}, \pm 0.1^{\circ}\text{C}$ -44033 2252 Ω -80 to 75°C, ± 0.1°C -44030 3000Ω -80 to 75°C, ± 0.1°C -44034 5000 Ω -80 to 75°C, ± 0.1°C -44031 10,000 Ω -80 to 75°C, ± 0.1°C $30,000 \Omega$ -44032

ON-931 Screw size Designation			
Screw Size Suffix	Hole Dimension	Screw size	
None	0.116 in.	#3 and #4	
-H147	0.147 in.	#5 and #6	
-H170	0.170 in.	#8	

Ordering Example: ON-931-44033-40-H147: Surface Thermistor probe with 2252-ohm high accuracy thermistor element, with 0.147 in. hole for #5 and #6 screw, 40 in. leads and stripped ends



DRAWING

