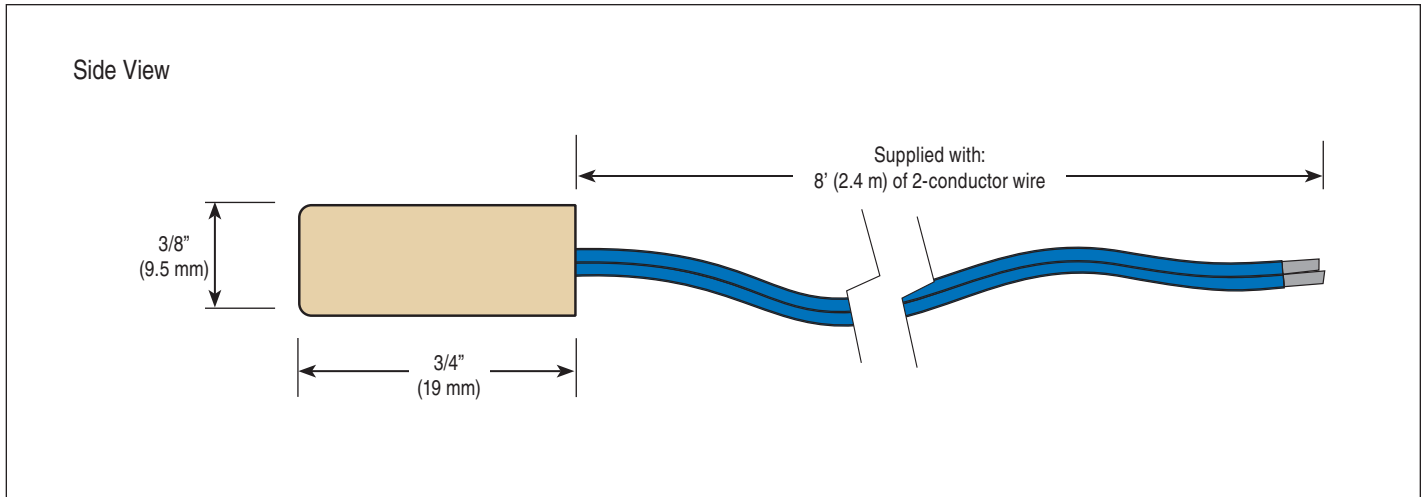




Job \_\_\_\_\_ Designer Brian Whitehurst Contact Pexheat.com

The Universal Sensor 082 is a 10 kΩ temperature sensor designed to be strapped onto a pipe. It can be used with any tekmar control sensor input, but is most commonly used to monitor supply and return water temperatures. This product has a brass sleeve for fast response, a wide operating range, an indent to allow pipe strap on installation, and 8 ft. (2.4 m) of 2-conductor wire.



**Specifications**

Universal Sensor 082	
Literature	082_D
Packaged weight	0.1 lb (50 g)
Dimensions	3/8" OD x 3/4" (9.5 OD x 19 mm)
Enclosure	Brass sleeve, 8' (2438 mm) 20 AWG, 300V PVC insulated zipcord
Approvals	CSA C US
Operating range	-60 to 221°F (-51 to 105°C)
Sensor	NTC thermistor, 10 kΩ @ 77°F (25°C ±0.2°C) β=3892
Warranty	Limited 3 Year (See 082_D for full warranty)

**Features**

- 10K thermistor
- Very fast temperature response
- Thermistor accuracy of +/-0.2°F
- Corrosion resistant brass sleeve
- CSA and C US Approved for use in USA and Canada

**Temperature vs. Resistance**

Temperature	Resistance	Temperature	Resistance	Temperature	Resistance	Temperature	Resistance				
°F	°C	Ω	°F	°C	Ω	°F	°C	Ω	°F	°C	Ω
-40°	-40°	336,479	68°	20°	12,493	176°	80°	1,255	284°	140°	235
-31°	-35°	242,681	77°	25°	10,000	185°	85°	1,070	293°	145°	208
-22°	-30°	176,974	86°	30°	8,057	194°	90°	915	302°	150°	186
-13°	-25°	130,421	95°	35°	6,531	203°	95°	786	311°	155°	166
-4°	-20°	97,081	104°	40°	5,326	212°	100°	678	320°	160°	148
5°	-15°	72,957	113°	45°	4,368	221°	105°	587	329°	165.°	133
14°	-10°	55,329	122°	50°	3,602	230°	110°	510	338°	170°	119
23°	-5°	42,327	131°	55°	2,986	239°	115°	445	347°	175°	107
32°	0°	32,650	140°	60°	2,488	248°	120°	389	356°	180°	97
41°	5°	25,392	149°	65°	2,083	257°	125°	341	365°	185°	87
50°	10°	19,901	158°	70°	1,752	266°	130°	301	374°	190°	79
59°	15°	15,712	167°	75°	1,480	275°	135°	265	383°	195°	72

**SPECIAL REQUIREMENTS**

N / A



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