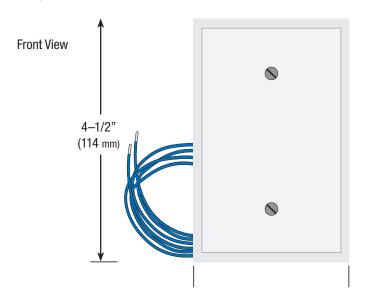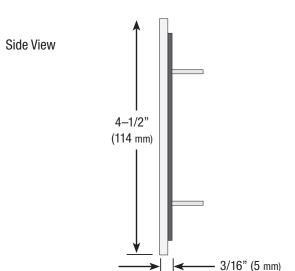Job _____   Designer _____   Contact_____

Indoor Sensor 077

The Indoor Sensor 077 is designed to act as a remote indoor temperature sensor. It can be used in a number of applications for indoor temperature sensing, and is sized for attachment to a 2" x 4" electrical box. This is a 10K thermistor designed to be installed with a compatible tekmar thermostat or control.

Front View

4–1/2"
(114 mm)

Side View

4–1/2"
(114 mm)

3/16" (5 mm)

Features

- 10K thermistor
- Compatible with tekmar thermostats that support auxiliary sensors

Special Requirements

This sensor is designed to be mounted on a 2" x 4" electrical box

Specifications

Indoor Sensor 077

Literature	D077
Packaged weight	0.2 lb. (90 g), baked enamel (white) on steel
Dimensions	4½" H x 2⅞" W x ½" D (114 x 73 x 13 mm), ³⁄₁₆" D (5 mm) when installed
Approvals	CSA C US
Operating range	Splashproof, -60 to 140°F (-51 to 60°C)
Sensor	NTC thermistor, 10 kΩ @ 77°F (25°C ±0.2°C) ß=3892
Sensor leads	12" (30 cm) 20 AWG, XLPE multi strand
Backing	¼" expanded neoprene gasket
Environmental	Do not use in presence of ammonia such as animal barns
Included	Two 6-32 x 1" screws
Warranty	Limited 3 Year (See D077 for full warranty)

tekmar®

A WATTS Brand

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