



20015975-00

Disposable Sensor

Description

20015975-00 is a low cost and high accuracy sensor assembly for patient monitoring.

In a typical application, 20015975-00 is placed inside a medical catheter for mechanical protection and used to measure the body temperature of patients. Other applications include but are not limited to the use of 20015975-00 to make skin sensors and general purpose probes.

Features

- NTC thermistor with 10,000 Ohm nominal resistance @25°C.
- $\pm 0.1^\circ\text{C}$ accuracy over the range of 25°C to 50°C.
- Response time from 25°C to 37°C (T= 63.2%): < 3 seconds.
- Proven stability and reliability.
- Low cost.

Applications

- Continuous patient monitoring.
- Foley catheter.
- Esophageal catheter.
- Skin sensors.
- General purpose probes.

Generic Steinhart-Hart Constants

A	1.129537686356480E-03
B	2.337560356134140E-04
C	7.136757562106220E-08
D	8.377136773149920E-08

Resistance vs Temperature Table

Temperature	Resistance	Temperature	Resistance
(°C)	(Ω)	(°C)	(Ω)
25	10000.0	38	5773.4
26	9571.9	39	5543.8
27	9164.6	40	5324.6
28	8776.7	41	5115.2
29	8407.5	42	4915.2
30	8055.7	43	4724.1
31	7720.6	44	4541.4
32	7401.3	45	4366.7
33	7096.9	46	4199.7
34	6806.7	47	4040.0
35	6529.9	48	3887.1
36	6265.8	49	3740.9
37	6013.9	50	3600.9

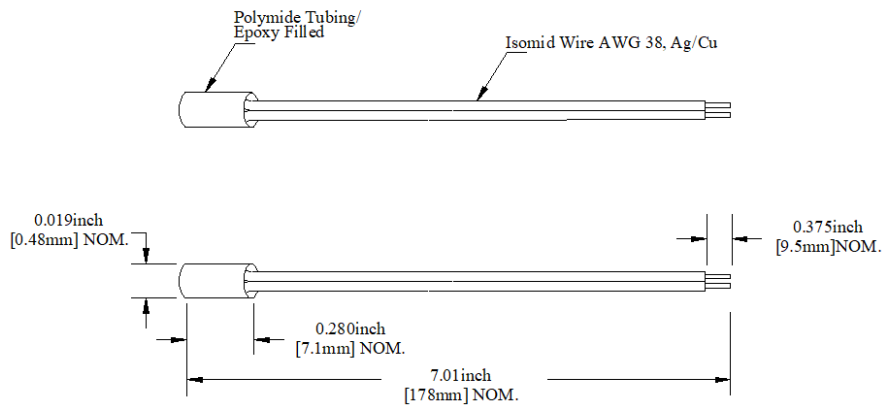
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Specifications

Parameters	Units	Value
Resistance @25°C	Ohms	10000
Accuracy Range of Interest	°C	25 to 50
Measurement Accuracy within the Range of Interest	°C	±0.1
Nominal Beta Value 25/85	K	3976
Time Response from 25°C to 37°C in Well Stirred Liquid (T= 63.2%)	Seconds	< 3.0

Mechanical Details



Ordering Information

Description	Part Number
PY-A1002C8-PY-.28"-.019"-I-38-2-7.0"-0	20015975-00