



20015622-00

Disposable Sensor with Molded Cap

Description

20015622-00 is a low cost and high accuracy sensor assembly with molded connector for patient monitoring, compatible with the 400 series nominal resistance response curve.

In a typical application, 20015622-00 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 20015622-00 to make skin sensors and general purpose probes.

Features

- 400 series nominal resistance response curve.
- NTC thermistor with 2252 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%): < 5 seconds.
- Medical grade material.
- Proven stability and reliability.
- Low cost.

Applications

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

Generic Steinhart-Hart Constants

A	1.478449471422940E-03
B	2.345273369229340E-04
C	4.460181921656660E-07
D	8.377136773151330E-08

Resistance vs Temperature Table

Temperature (°C)	Resistance (Ω)	Temperature (°C)	Resistance (Ω)
25	2252.0	38	1300.2
26	2155.6	39	1248.5
27	2063.9	40	1199.1
28	1976.5	41	1152.0
29	1893.4	42	1106.9
30	1814.2	43	1063.9
31	1738.7	44	1022.7
32	1666.8	45	983.4
33	1598.2	46	945.8
34	1532.9	47	909.8
35	1470.5	48	875.4
36	1411.1	49	842.4
37	1354.3	50	810.9

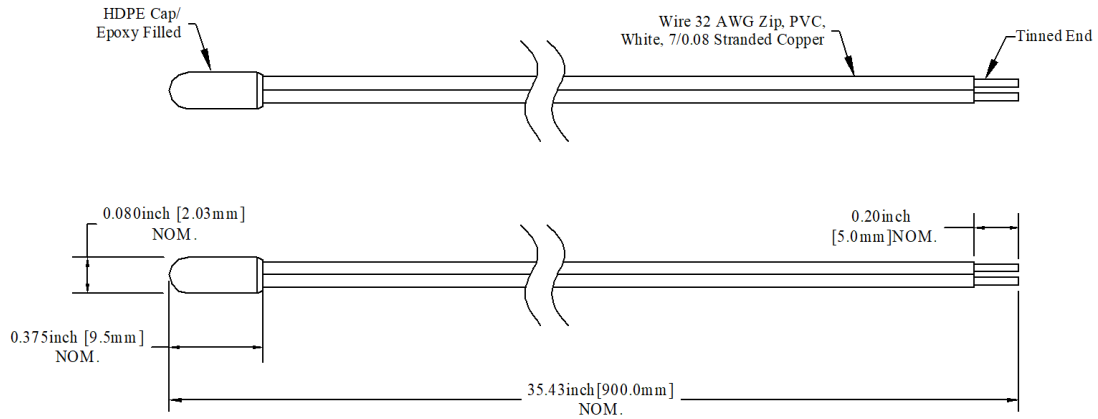
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Specifications

Parameters	Units	Value
Resistance @25°C	Ohms	2252
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	< 5.0

Mechanical Details



Ordering Information

Description	Part Number
THR-A#-2251-D1-HDP-0.375"-0.080"-00-Z-	20015622-00