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.
- ±0.1°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

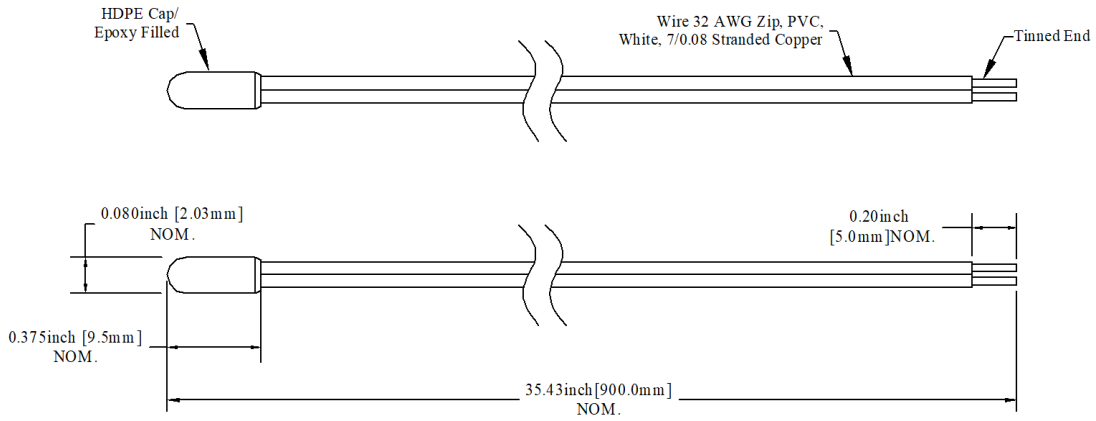
Resistance vs Temperature Table

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

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