

# Waterproof Temperature Sensor



## IP68 RATED PRODUCT

QTI's Hydroguard IP68 Series of parts combines a highly stable precision thermistor encapsulated with an extremely durable waterproof housing. The temperature sensor offers excellent performance during harsh freeze thaw cycles. The over molded probes are a great solution where waterproof and moisture resistance is critical.



## Features

- Precision NTC Thermistor
- Long term stability
- Double insulated thermoplastic rubber
- Ruggedized housing and corrosion resistant cable
- Waterproof rating to IP68
- Based on the most common curves in the industry

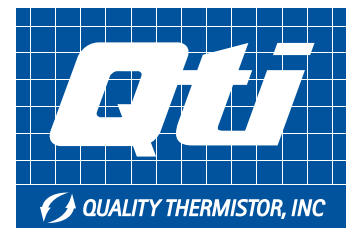
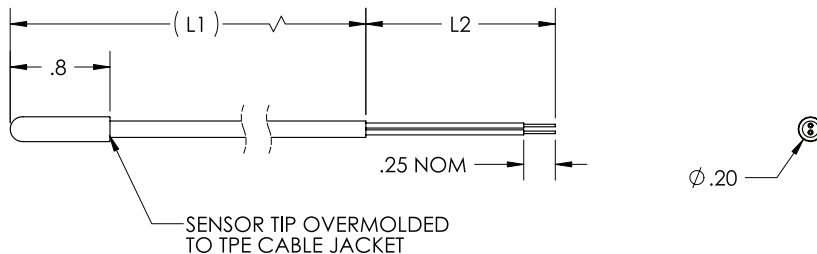
## Applications

- Refrigeration and freezer applications
- Air-conditioning
- Under floor heating
- Climate control systems
- High humidity environments
- Maximizing refrigerator equipment life



TEMPERATURE RANGE	-55°C to 105°C (-67°F to 221°F) continuous <b>Also available up to 150° C (302°F)</b>
CABLE	2', 5', 10', 25' ( <b>custom lengths available</b> ) #24 AWG stranded copper, VDE Approved <b>Insulation Resistance 100MOhm at 1000 VDC</b> Color coded wire available
RESISTANCE VALUES @ 25°C	2.25k, 5k, 10k, 20k, 100k, Other values available.
DIELECTRIC STRENGTH	3750 VAC
ACCURACY	Point Matched: +/- 1%, 2%, 5% and 10% <b>Interchangeable 0°-70°C (32-158°F): +/- 0.2°C</b>
MOISTURE RESISTANCE	Meets or exceeds IP68

- \* NIST certificate available
- \* Minimum order quantity 10 pieces
- \* Standard lead time is stock to 6 weeks.



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**IP68 – The IP Code** (sometimes also interpreted as Ingress Protection Rating) consists of the letters IP followed by two digits and an optional letter. As defined in international standard IEC 60529, it classifies the degrees of protection provided against the intrusion of dust and water in electrical enclosures. The standard aims to provide users more detailed information than vague marketing terms such as waterproof. The rating is also known as ingress protection. The IP68 rating is protection against complete, continuous submersion in water from 15 meters or 50 feet

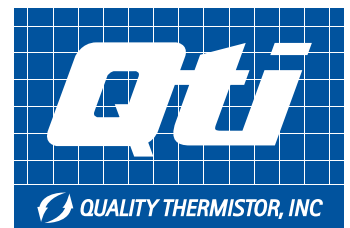
Temp. C	Beta 3972
-55	96.40
-50	67.06
-45	47.08
-40	33.66
-35	24.29
-30	17.70
-25	13.03
-20	9.71
-15	7.30
-10	5.53
-5	4.23
0	3.27
5	2.54
10	1.99
15	1.57
20	1.25
25	1.00
30	0.81
35	0.65
40	0.53
45	0.44
50	0.36
55	0.30
60	0.25
65	0.21
70	0.18
75	0.15
80	0.13
85	0.11
90	0.09
95	0.08
100	0.07
105	0.06

Temp. C	Beta 4258
-55	117.50
-50	81.32
-45	56.69
-40	40.16
-35	28.66
-30	20.64
-25	15.00
-20	11.03
-15	8.18
-10	6.12
-5	4.62
0	3.51
5	2.69
10	2.08
15	1.62
20	1.27
25	1.00
30	0.79
35	0.63
40	0.51
45	0.41
50	0.34
55	0.27
60	0.23
65	0.19
70	0.16
75	0.13
80	0.11
85	0.09
90	0.08
95	0.07
100	0.06
105	0.05

Temp. C	Beta 3435
-40	18.84
-35	14.43
-30	11.14
-25	8.66
-20	6.78
-15	5.35
-10	4.25
-5	3.39
0	2.73
5	2.21
10	1.80
15	1.47
20	1.21
25	1.00
30	0.83
35	0.69
40	0.58
45	0.49
50	0.42
55	0.35
60	0.30
65	0.26
70	0.22
75	0.19
80	0.17
85	0.17
90	0.13
95	0.11
100	0.10
105	0.09

AVAILABLE IN A WIDE  
VARIETY OF U.S. AND  
INTERNATIONAL  
TEMPERATURE CURVES.

\* VISIT OUR WEBSITE FOR FULL DETAILS



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