

Waterproof Temperature Sensor



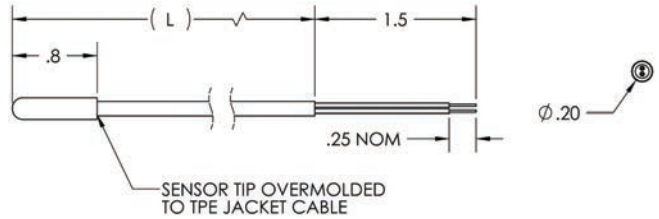
QTI's Hydroguard IP68 series combines a highly stable precision thermistor with an extremely durable waterproof housing. The temperature sensor offers excellent performance during harsh freeze thaw cycles. It is ideal for use with discharge lines, evaporator fins, evaporator coils, and cabinet temperature applications.

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 NTC thermistor curves in the industry

APPLICATIONS

- Refrigeration equipment
- Air conditioning
- Under floor heating
- Climate control systems
- High humidity environments



■ Right: QTI's IP68 sensors are specifically designed for the harsh freeze-thaw cycles of refrigeration units.



Below: IP68 sensors clipped to copper tubing.

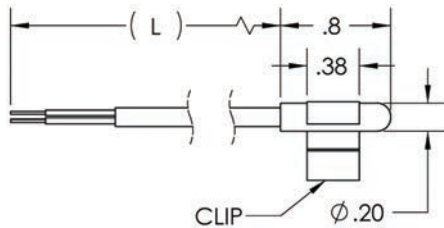
Temperature Range	-40°C to 110°C (-40°F to 230°F) continuous
Cable	2', 4', 8', 10', 20' 40' #24 AWG stranded copper Color-coded wire jacket available
Resistance values at 25°C	2K, 2.5K, 3K, 5K, 10K, 50K, 100K, and more
Accuracy	Point matched: +/- 1%, 2%, 5%, 10% Interchangeable 0°C to 70°C (32°F to 158°F): +/- 0.2°C
Moisture resistance	Meets or exceeds IP68



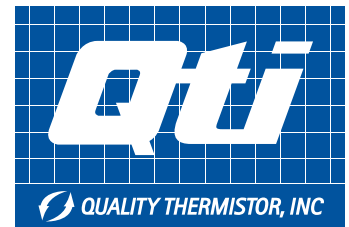
CLIP MOUNT

Save installation time for manufacturers and technicians and also improve the performance of the IP68 sensor by clipping them to various sizes of copper tubing using our optional clips (see details below). Standard clip is spring steel with a nickel plating that is compatible with copper tubing. A variety of clip sizes are available to suit most refrigeration applications. Also, if your application require the use of materials other than copper tubing, QTI is willing and able to manufacture these clips with alternative plating materials and/or base metals.

Clip sizes available:
 $\frac{1}{4}$, $\frac{3}{8}$, $\frac{1}{2}$, $\frac{5}{8}$, $\frac{3}{4}$, $1\frac{1}{8}$



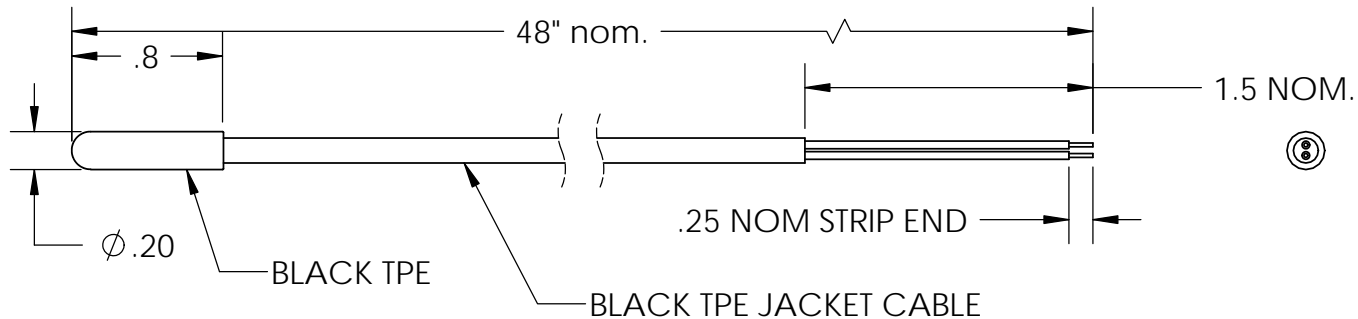
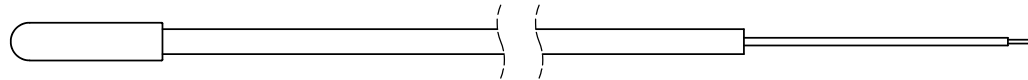
- $\frac{1}{4}$ " and $\frac{3}{8}$ " clips are 0.38" wide.
- All other clips are 0.625" wide.



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ELECTRICAL CHARACTERISTICS:

R25C=10K OHMS +/-1.0%
RT CURVE Z, NTC=-4.4%/C @ 25C

OPERATING TEMPERATURE: -40C TO 110C
STORAGE TEMPERATURE: -50C TO 125C

MECHANICAL CHARACTERISTICS:

LEADS:
#24 AWG, STRANDED, NICKEL PLATED COPPER CONDUCTOR
LEAD INSULATION = POLYPROPYLENE
JACKET = THERMOPLASTIC ELASTOMER (TPE)

SENSOR TIP:
OVERMOLDED TPE

CONNECTOR:
HOUSING:
TERMINALS:

NOTES:

-ONE BLACK LEAD AND ONE WHITE LEAD

	INITIAL	DATE
DRAWN	BC	9/10/2012
ENG APPR.		Sep 10, 2012
MAT APPR.	<i>[Signature]</i>	Sep 11, 2012
Q.A. APPR.	<i>[Signature]</i>	Sep 16, 2012



2108 CENTURY WAY
BOISE, ID 83709

QTI PART NUMBER: **QTIP68-14F-48** REV **B**

SIZE **A** DWG. NO. QTIP68-14F-48.B.SLDDRW

SCALE: 1:1 WEIGHT: SHEET 1 OF 1

DATE	REVISION	INITIAL
9/7/12	B	JK
2/18/2011	A	BC
7/14/2010	-	BC

DIMENSIONS ARE IN INCHES
TOLERANCES:
FRACTIONAL ±1/8
.X ±0.1
.XX ±0.02
.XXX ±0.005

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