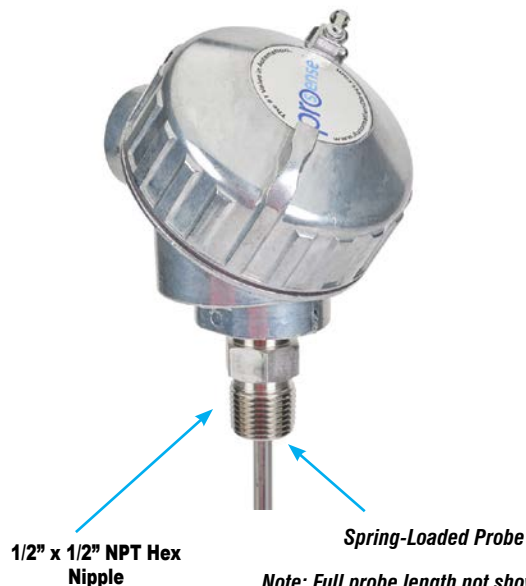


# prosense® 10K-3 Thermistor Spring-Loaded Probes with Connection Head

**NTC10K3-C04-03**



*Note: Full probe length not shown in photo*

## Overview

- Probe
  - Spring-loaded for positive tip contact in thermowells
  - NTC 10k Thermistor Type 3
  - 1/4" diameter, 316 SS sheath to protect against harsh environments
  - 4", 6" or 12" probe length
- Connection Head
  - Cast aluminum NEMA 4X, IP66 screw cover head with captive gasket
  - One turn cover removal & installation eliminates cross threading and saves time
  - 3/4" NPT conduit opening with internal stop to prevent overtightening and installation damage
  - Gripping ribs on cover edge
  - Stainless steel cover chain
- Wiring
  - 2 feet of cable provided with 2 inches of 24AWG wire pre-stripped 1/4 inch and tinned
- Made in the USA



## 10K-3 Thermistor Spring-Loaded Probes with Connection Head

Part Number	Pcs/Pkg	Wt (lb)	Price	Drawing Link	Type	Probe Diameter (O.D.)	Probe Length	Temperature Sensing Range	Mounting
<a href="#"><u>NTC10K3-C04-03</u></a>	1	1.1	\$74.00	<a href="#"><u>PDF</u></a>	10K-AN Type 3 Thermistor	1/4"	4"	-40 to 125° C (-40 to 257° F)	Integral 1/2" x 1/2" NPT Hex Nipple, 316 SS. Mount in thermowell (see accessories, purchased separately)
<a href="#"><u>NTC10K3-C06-03</u></a>		1.11	\$75.00	<a href="#"><u>PDF</u></a>			6"		
<a href="#"><u>NTC10K3-C12-03</u></a>		1.15	\$77.00	<a href="#"><u>PDF</u></a>			12"		

## Technical Specifications

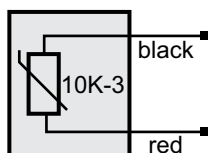
<b>Sensing Element</b>	Epoxy Coated NTC Thermistor
<b>No-Load Resistance</b>	10kΩ at 25°C
<b>Accuracy</b>	± 0.2°C from 0°C to 70°C
<b>Probe</b>	ø1/4", 316 stainless steel sheath
<b>Connection Head</b>	Die-cast aluminum, screw cover with stainless steel chain, compressed graphite gasket, NEMA 4X, IP66, 3/4" NPT conduit opening, Max Temp. 221°F (105°C)
<b>Sensing Element Response Time</b>	Approximately 1 second*
<b>Wiring</b>	24 inches of PVC cable inside cover with 2 inches of 24AWG wire stripped 1/4 inch and tinned

\* The sensing element has an approximate response time of 1 second in a well stirred liquid bath. Different constructions will have different thermal responses.



*Note: Check the chemical compatibility of the sensor's wetted parts with the medium to be measured.*

## Wiring Information



- No polarity

# prosense® 10K-3 Thermistor Spring-Loaded Probes with Connection Head - Accessories

## Accessories

Part No.	Description	Pcs/Pkg	Price
<a href="#"><u>TW04-01</u></a>	Standard duty threaded thermowell with 1/2 inch NPT male process threads, 304 stainless steel, 4-1/4 inch overall length with 0.260 inch bore diameter, for use with 4-inch long, 1/4 inch diameter spring loaded probes with 1/2 inch NPT threaded fitting, 2-1/2 inch insertion length	1	\$36.00
<a href="#"><u>TW04-02</u></a>	Standard duty threaded thermowell with 3/4 inch NPT male process threads, 304 stainless steel, 4-1/4 inch overall length with 0.260 inch bore diameter for use with 4-inch long, 1/4 inch diameter spring loaded probes with 1/2 inch NPT threaded fitting, 2-1/2 inch insertion length	1	\$36.00
<a href="#"><u>TW04-03</u></a>	Standard duty threaded thermowell with 1/2 inch NPT male process threads, 316 stainless steel, 4-1/4 inch overall length with 0.260 inch bore diameter for use with 4-inch long, 1/4 inch diameter spring loaded probes with 1/2 inch NPT threaded fitting, 2-1/2 inch insertion length	1	\$45.00
<a href="#"><u>TW04-04</u></a>	Standard duty threaded thermowell with 3/4 inch NPT male process threads, 316 stainless steel, 4-1/4 inch overall length with 0.260 inch bore diameter for use with 4-inch long, 1/4 inch diameter spring loaded probes with 1/2 inch NPT threaded fitting, 2-1/2 inch insertion length	1	\$45.00
<a href="#"><u>TW06-01</u></a>	Standard duty threaded thermowell with 1/2 inch NPT male process threads, 304 stainless steel, 6-1/4 inch overall length with 0.260 inch bore diameter for use with 6-inch long, 1/4 inch diameter spring loaded probes with 1/2 inch NPT threaded fitting, 4-1/2 inch insertion length	1	\$49.50
<a href="#"><u>TW06-02</u></a>	Standard duty threaded thermowell with 3/4 inch NPT male process threads, 304 stainless steel, 6-1/4 inch overall length with 0.260 inch bore diameter for use with 6-inch long, 1/4 inch diameter spring loaded probes with 1/2 inch NPT threaded fitting, 4-1/2 inch insertion length	1	\$49.50
<a href="#"><u>TW06-03</u></a>	Standard duty threaded thermowell with 1/2 inch NPT male process threads, 316 stainless steel, 6-1/4 inch overall length with 0.260 inch bore diameter for use with 6-inch long, 1/4 inch diameter spring loaded probes with 1/2 inch NPT threaded fitting, 4-1/2 inch insertion length	1	\$57.00
<a href="#"><u>TW06-04</u></a>	Standard duty threaded thermowell with 3/4 inch NPT male process threads, 316 stainless steel, 6-1/4 inch overall length with 0.260 inch bore diameter for use with 6-inch long, 1/4 inch diameter spring loaded probes with 1/2 inch NPT threaded fitting, 4-1/2 inch insertion length	1	\$57.00
<a href="#"><u>TW12-01</u></a>	Standard duty threaded thermowell with 1/2 inch NPT male process threads, 304 stainless steel, 12-1/4 inch overall length with 0.260 inch bore diameter for use with 12-inch long, 1/4 inch diameter spring loaded probes with 1/2 inch NPT threaded fitting, 10-1/2 inch insertion length	1	\$80.00
<a href="#"><u>TW12-02</u></a>	Standard duty threaded thermowell with 3/4 inch NPT male process threads, 304 stainless steel, 12-1/4 inch overall length with 0.260 inch bore diameter for use with 12-inch long, 1/4 inch diameter spring loaded probes with 1/2 inch NPT threaded fitting, 10-1/2 inch insertion length	1	\$80.00
<a href="#"><u>TW12-03</u></a>	Standard duty threaded thermowell with 1/2 inch NPT male process threads, 316 stainless steel, 12-1/4 inch overall length with 0.260 inch bore diameter for use with 12-inch long, 1/4 inch diameter spring loaded probes with 1/2 inch NPT threaded fitting, 10-1/2 inch insertion length	1	\$98.00
<a href="#"><u>TW12-04</u></a>	Standard duty threaded thermowell with 3/4 inch NPT male process threads, 316 stainless steel, 12-1/4 inch overall length with 0.260 inch bore diameter for use with 12-inch long, 1/4 inch diameter spring loaded probes with 1/2 inch NPT threaded fitting, 10-1/2 inch insertion length	1	\$98.00

See end of section for full listing of accessories and dimension information.

## Spring-Loaded Probe and Thermowell Assembly Example



- Spring-loaded probe design ensures positive tip contact with the bottom of the thermowell.
- Integral probe hex nipple threads directly into thermowell. No additional probe mounting fittings are required.