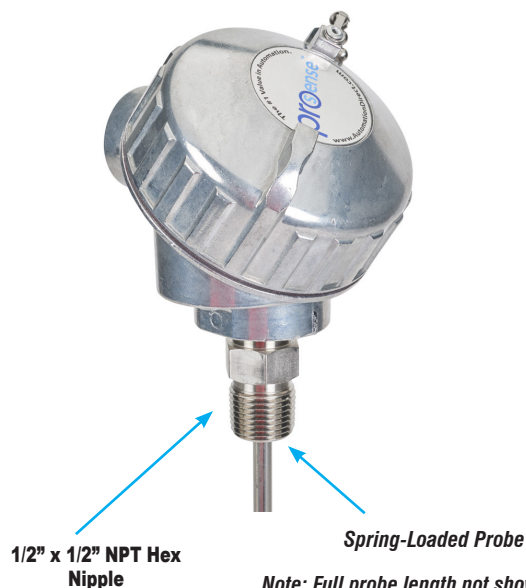


prosense® 10K-3 Thermistor Spring-Loaded Probes with Connection Head

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 |
|---------------------------------------|---------|---------|---------|----------------------------|--------------------------|-----------------------|--------------|----------------------------------|----------------------------------------------------------------------------------------------------------|
| <u>NTC10K3-C04-03</u> | 1 | 1.1 | \$74.00 | <u>PDF</u> | 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) |
| <u>NTC10K3-C06-03</u> | | 1.11 | \$75.00 | <u>PDF</u> | | | 6" | | |
| <u>NTC10K3-C12-03</u> | | 1.15 | \$77.00 | <u>PDF</u> | | | 12" | | |

Technical Specifications

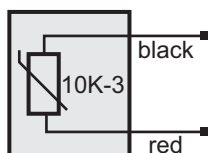
| | |
|--------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------|
| Sensing Element | Epoxy Coated NTC Thermistor |
| No-Load Resistance | 10kΩ at 25°C |
| Accuracy | ± 0.2°C from 0°C to 70°C |
| Probe | ø1/4", 316 stainless steel sheath |
| Connection Head | 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) |
| Sensing Element Response Time | Approximately 1 second* |
| Wiring | 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

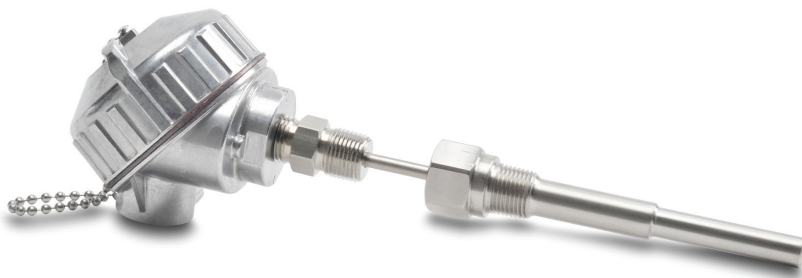
prosense® 10K-3 Thermistor Spring-Loaded Probes with Connection Head - Accessories

Accessories

| Part No. | Description | Pcs/Pkg | Price |
|--------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------|---------|
| <u>TW04-01</u> | 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 |
| <u>TW04-02</u> | 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 |
| <u>TW04-03</u> | 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 |
| <u>TW04-04</u> | 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 |
| <u>TW06-01</u> | 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 |
| <u>TW06-02</u> | 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 |
| <u>TW06-03</u> | 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 |
| <u>TW06-04</u> | 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 |
| <u>TW12-01</u> | 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 |
| <u>TW12-02</u> | 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 |
| <u>TW12-03</u> | 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 |
| <u>TW12-04</u> | 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.