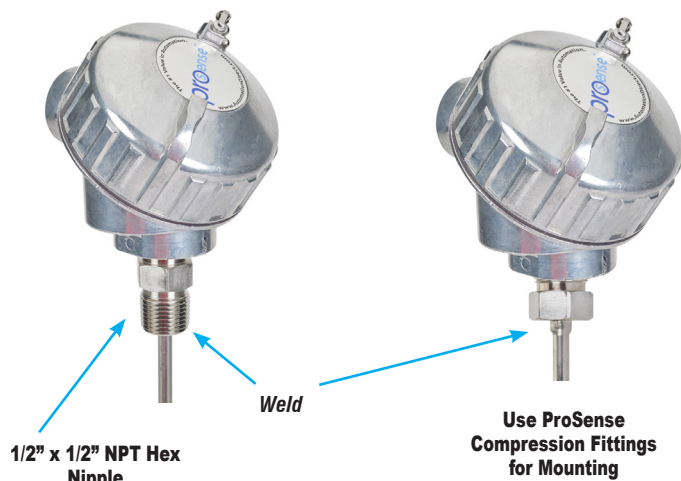


# prosense® 10K-3 Thermistor Probes with Connection Head

**NTC10K3-C06-01****NTC10K3-C06-02**

Note: Full probe length not shown in photos

## Overview

- Probe
  - NTC 10k Thermistor Type 3
  - 1/4" diameter, 316 SS sealed sheath to protect against harsh environments
  - 6", 12" or 18" probe length
- Connection Head
  - Cast aluminum NEMA 4X, IP66 screw cover head with 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 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="#">NTC10K3-C06-01</a>               | 1       | 1.12    | \$73.50 | <a href="#">PDF</a> | 10K-AN Type 3 Thermistor | 1/4"                  | 6"           | -40 to 125° C<br>(-40 to 257° F) | Integral 1/2" x 1/2" NPT Hex Nipple, 316 SS                           |
| <a href="#">NTC10K3-C12-01</a>               |         | 1.18    | \$75.50 | <a href="#">PDF</a> |                          |                       | 12"          |                                  |                                                                       |
| <a href="#">NTC10K3-C18-01</a>               |         | 1.23    | \$78.00 | <a href="#">PDF</a> |                          |                       | 18"          |                                  |                                                                       |
| <a href="#">NTC10K3-C06-02</a>               |         | 1.0     | \$67.00 | <a href="#">PDF</a> |                          |                       | 6"           |                                  | ProSense compression fitting (see accessories - purchased separately) |
| <a href="#">NTC10K3-C12-02</a>               |         | 1.09    | \$69.50 | <a href="#">PDF</a> |                          |                       | 12"          |                                  |                                                                       |
| <a href="#">NTC10K3-C18-02</a>               |         | 1.16    | \$72.00 | <a href="#">PDF</a> |                          |                       | 18"          |                                  |                                                                       |

| 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>Minimum Installation Depth</b>    | 3" (76 mm)                                                                                                                                              |
| <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                                                            |

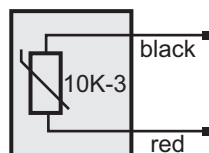
\* The sensing element has an approximate response time of 1 second in a well stirred liquid bath. Different constructions will have different thermal responses.



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

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## Wiring Information



- No polarity

## Accessories

| Part No.                          | Description                                                                                                  | Pcs/Pkg | Price   |
|-----------------------------------|--------------------------------------------------------------------------------------------------------------|---------|---------|
| <a href="#"><u>BCF14-125N</u></a> | Compression fitting, brass, for 1/4 inch diameter temperature probes, 1/8 inch NPT male thread               | 1       | \$3.25  |
| <a href="#"><u>BCF14-25N</u></a>  | Compression fitting, brass, for 1/4 inch diameter temperature probes, 1/4 inch NPT male thread               | 1       | \$4.25  |
| <a href="#"><u>BCF14-50N</u></a>  | Compression fitting, brass, for 1/4 inch diameter temperature probes, 1/2 inch NPT male thread               | 1       | \$6.50  |
| <a href="#"><u>CF14-125N</u></a>  | Compression fitting, 316 stainless steel, for 1/4 inch diameter temperature probes, 1/8 inch NPT male thread | 1       | \$8.00  |
| <a href="#"><u>CF14-25N</u></a>   | Compression fitting, 316 stainless steel, for 1/4 inch diameter temperature probes, 1/4 inch NPT male thread | 1       | \$9.25  |
| <a href="#"><u>CF14-50N</u></a>   | Compression fitting, 316 stainless steel, for 1/4 inch diameter temperature probes, 1/2 inch NPT male thread | 1       | \$14.00 |
| <a href="#"><u>CFTF-14</u></a>    | Teflon ferrule for brass or stainless steel compression fittings and 1/4 diameter temperature probes         | 5       | \$7.75  |

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