

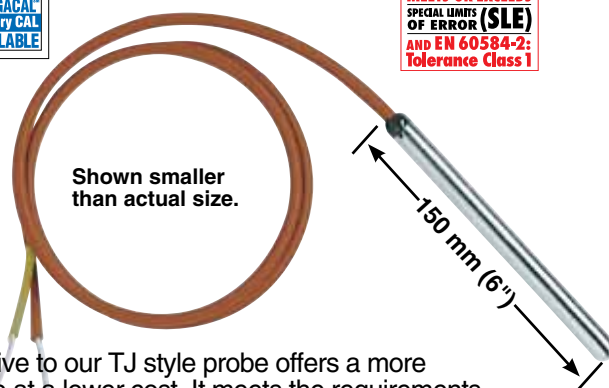
# Specialty Thermocouple Probes

## Low-Cost Hollow-Tube Thermocouple Probe

- ✓ 1 m (40") PFA-Insulated Lead Wire Epoxy Potted into a 304 SS Sheath
- ✓ Probe Rated Up to 450°F
- ✓ Probe Diameters of 1.5, 3.0, 4.5, and 6.0 mm ( $\frac{1}{16}$ ",  $\frac{1}{8}$ ",  $\frac{3}{16}$ ", and  $\frac{1}{4}$ ")
- ✓ J, K, T, E, and N Calibrations
- ✓ Glass-Insulated Leads Available for Higher Temperatures (Up to 900°F)
- ✓ Made with Special Limits of Error Wire
- ✓ Grounded Junction

OMEGACAL<sup>®</sup>  
Factory CAL  
AVAILABLE

MEETS OR EXCEEDS  
SPECIAL LIMITS  
OF ERROR (SLE)  
AND EN 60584-2:  
Tolerance Class 1



This alternative to our TJ style probe offers a more compact size at a lower cost. It meets the requirements of limited-space applications, without the metal transition fitting or strain relief spring.

### To Order

| Model Number         | Probe Dia.                  | Lead AWG    |
|----------------------|-----------------------------|-------------|
| HTTC36-(*)-116G-(**) | 1.5 mm ( $\frac{1}{16}$ " ) | 30 Solid    |
| HTTC36-(*)-18G-(**)  | 3.0 mm ( $\frac{1}{8}$ " )  | 24 Stranded |
| HTTC36-(*)-316G-(**) | 4.5 mm ( $\frac{3}{16}$ " ) | 20 Stranded |
| HTTC36-(*)-14G-(**)  | 6.0 mm ( $\frac{1}{4}$ " )  | 20 Stranded |

\* Specify calibration type: J, K, T, E, or N.

\*\* Specify probe length in inches 1½ to 6" (38 to 150 mm).

Over 150 mm (6"), for additional cost per inch. 32 mm (1.25") minimum; 1.2 m (48") maximum. Over 1.2 m (48") consult Custom Engineering Department. Over 1 m (40") leads, for additional cost per foot, and modify model number. Add suffix: "GG" for fiberglass insulated lead wire. [Does not include 1.5 mm ( $\frac{1}{16}$ ") diameter.]

**Ordering Example:** HTTC36-K-18G-6-GG, hollow tube thermocouple Type K calibration, 3 mm ( $\frac{1}{8}$ ") diameter, 150 mm (6") probe length, 1 m (40") glass insulated leads.

**Options:** Modify model number to meet your specific needs. For connector terminations add suffix "-OSTW-M" or "-SMPW-M" for an additional cost. For ungrounded probe change "G" in part number to "U" and for an additional cost.

## NB1 Replacement Probe With Lead Wire

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Shown smaller  
than actual size.

- ✓ Wide Variety of Wire Types Available
- ✓ J, K, T, E, and N Calibration Types
- ✓ User-Selectable Diameter and Length
- ✓ Made with Special Limits of Error Wire
- ✓ 1 m (40") Long Leads, Standard; Other Lengths Available

This flexible lead-wire replacement probe is ideal for field installation with existing protection heads or for extending leads to remote locations. Flexible leads prevent breakage in hard-to-wire situations. These probes have 20 AWG stranded lead wire and a  $\frac{1}{2}$  x  $\frac{1}{2}$  NPT hex fitting. Probe length includes 13 mm ( $\frac{1}{2}$ ") of hex fitting threads.

Over 1 m (40") leads, modify model number, for additional cost per foot. TT-SB: PFA with SS overbraiding, GG-SB: fiberglass with SB overbraiding and length in inches, for an additional cost. Over 1 m (40") leads, modify model number, for additional cost per foot.

**Ordering Example:** NB1-CASS-14G-12RP-TT36, Type K "replacement probe", 300 mm (12") long, 6 mm ( $\frac{1}{4}$ ") diameter, grounded junction with 1 m (40") PFA leads (for other diameters and configurations, contact Sales).

### To Order

| Model Number            | Description                     |
|-------------------------|---------------------------------|
| NB1-(*)SS-14G-(**)-RP-t | Up to 300 mm (12") probe length |
| NB1-(*)SS-14U-(**)-RP-t | Up to 300 mm (12") probe length |

\* Specify calibration type: CA, IC, CP, CX, NN. \*\* Probe length in inches.  
† Wire insulation type. TT: PFA, GG: fiberglass and length in inches.

## Metal Handle Probe

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- ✓ 1.5, 3.0, 4.5, and 6.0 mm ( $\frac{1}{16}$ ",  $\frac{1}{8}$ ",  $\frac{3}{16}$ ", and  $\frac{1}{4}$ ") Diameters
- ✓ 300 mm (1') of Retractable Cable Expands to 1.5 m (5')
- ✓ Probe Leads Terminate in a Male SMP Miniature Connector
- ✓ Heavy-Duty Aluminum Handle
- ✓ Bendable Probe
- ✓ Variations Available—Contact the Quotations Department

### To Order

| Model Number           |
|------------------------|
| MHP-(*)SS-14G-(**)-SMP |

\* Specify calibration type: CA, IC, CP, CX, NN for K, J, T, E and N.

\*\* Specify probe length in inches.

**Ordering Example:** MHP-CASS-14G-12-SMP, metal handle probe, Type K calibration, 6 mm ( $\frac{1}{4}$ ") diameter, 300 mm (12") length, SMP connector (for other diameters and configurations, contact Sales).

The MHP handle probe picks up where the HPS handle probes leave off, offering unparalleled durability and no probe length limitations. A compression fitting rigidly secures the probe to the cast-aluminum handle and provides the rugged construction and stability that long probes and heavy-duty applications require.

Shown smaller than actual size.



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Tolerance Class 1

Molded Miniature  
Connector Standard