Industrial Replacement Probes
Rigidly Mounted or Spring Loaded
1/2" NPT Mounting Thread

Available as
SPECIAL UMITS (SLE)
OF ERROS (SLE)
OF E







Direct Surface Contact

✓ For Use in **Thermowells**

✓ Faster Response

Spring loaded thermocouple probes are designed to provide fast response when used in a thermowell. Approximately 13 mm (½") of travel is standard. Thermocouple junction cannot be damaged when installed into a thermowell. This probe is also ideal for use as a bearing sensor.

To Order:

Add Suffix "-RP-HNSL" to model numbers of NB1 and NB2 probe.

NB1-ICSS-316G-12-RP-HNSL Nipple Assembly Probe Length Includes ½" Thread Allowance

Note: Head sold separately.

✓ 300 mm (12") Length Stock[†] Custom Lengths Available

Visit us online

for probes with

lead wires

✓ Inconel or 304 Stainless Steel Sheath

✓ J, K, T and E Calibrations in Stock

 \sim 1.5, 3.0, 4.5, and 6.0 mm ($\frac{1}{16}$ ", $\frac{1}{8}$ ", $\frac{3}{16}$ ", and $\frac{1}{4}$ ") Diameters In Stock

> ✓ Use with Any **Protection Head!**

Made with Special Limits of Error Material

Rigidly mounted probes have 1/2" NPT mounting thread. They are supplied with a hex nipple for attachment to tank walls, pipe fittings, or conduit. The fitting is silver soldered to the probe sheath for a positive pressure seal. Supplied with 38 mm (1½") of bare leads with epoxy seal.

Replacement Probe

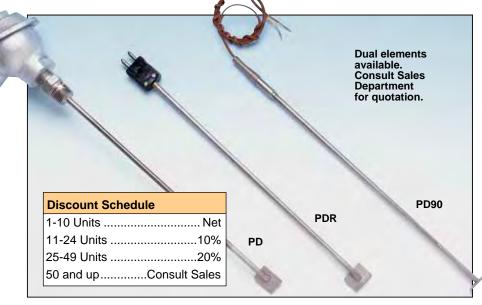
To Order: Add suffix RP to part numbers of NB series probes.

Example: NB1-CAIN-14G-12-RP Nipple Assembly Probe Length Includes 1/2" Thread Allowance

Note: Head sold separately. †Other lengths available, consult Sales Dept.

Dual Element Thermocouples Also Available! **Consult Sales** for price and availability.

Weld Pad Probes



Weld Pad Probe	Suffix
Parallel	-PD
Perpendicular	-PD90
Curved†*	-PDR†*

[†] Plus set-up fee.

Quick Disconnect probes are available with 304 stainless steel or Inconel welding pads for permanent installation. These rugged assemblies are available in three styles, Parallel, Perpendicular, and Curved, to meet most industrial applications. (1/16" Diameter probes and larger.)

PAD Dimensions:

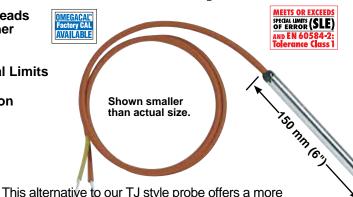
25 x 19 x 3 mm (1" x ¾" x ½")

Ordering Example: ICSS-14G-12-PDR-2", Iron-Constantan quick disconnect thermocouple ¼" dia., 12" L, SS sheath with a curved weld pad for a 2" pipe radius. Setup

^{*} Specify pipe radius.

Specialty Thermocouple ProbesLow-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 (¼₆", ½", ¾₆", and ½")
- ✓ 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



compact size at a lower cost. It meets the requirements

of limited-space applications, without the metal transition

To Order **Lead AWG Model Number** Probe Dia. HTTC36-(*)-116G-(**) 1.5 mm (1/46") 30 Solid HTTC36-(*)-18G-(**) 3.0 mm (1/4") 24 Stranded HTTC36-(*)-316G-(**) 4.5 mm (%₆") 20 Stranded HTTC36-(*)-14G-(**) 6.0 mm (1/4") 20 Stranded

#TTC36-(**) 6.0 mm (½") 20 Stranded fitting or strain reflet spring.

* 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 (1/6") diameter.]

Ordering Example: HTTC36-K-18G-6-GG, hollow tube thermocouple Type K calibration, 3 mm (1/6") 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



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.

To Order

Model Number
Description

NB1-(*)SS-14G-(**)-RP-†
Up to 300 mm (12") probe length

NB1-(*)SS-14U-(**)-RP-†
Up to 300 mm (12") probe length

* Specify calibration type: CA, IC, CP, CX, NN. ** Probe length in inches.

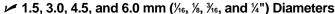
† Wire insulation type. TT: PFA, GG: fiberglass and length in inches.

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 (¼") diameter, grounded junction with 1 m (40") PFA leads (for other diameters and configurations, contact Sales).

OMEGAGAL Factory CAL AVAILABLE

Metal Handle Probe



- ✓ 300 mm (1') of Retractable Cable Expands to 1.5 m (5')
- ✓ Probe Leads Terminate in a Male SMP Miniature Connector
- 11 Doc Leads Terrimiate III a Maic Olin Milliature Cornic
- 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 Everyple MAID CASS 440 43 SME.

Ordering Example: MHP-CASS-14G-12-SMP, metal handle probe, Type K calibration, 6 mm (¼") 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.

