

Integral Handle Probes with Custom Measurement Tips

ANSI
color
code
shown

To order
IEC color
code see
pg. A-9



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



Completely assembled with 0.3 m (1') retractable cable
(stretches to 1.5 m [5']) and SMPW connector.

*Rated temperature is dependent on thermocouple type,
sheath diameter and environment.

ALL MODELS AVAILABLE FOR FAST DELIVERY!



4.5 mm ($\frac{3}{16}$ ") O.D.

\$45

Tip designed for easy penetration
into soft and semi-frozen objects.
Made from rugged 304 stainless
steel. Tip rated to 900°C (1650°F).

Penetration Probe

HPS-NP-[*]-316G-12



Reduced to
1.5 mm ($\frac{1}{16}$ ") O.D.

\$50

Special small diameter ($\frac{1}{16}$ ") tip
designed for fast response. Made
from 304 stainless steel. Tip rated
to 900°C (1600°F).

Fast Response Probe

HPS-RT-[*]-18G-12



6.0 mm ($\frac{1}{4}$ ") O.D.

\$75

Flexible tip which conforms to most
surfaces for fast, repeatable,
accurate measurements. Made from
RTV silicone rubber for good
thermal contact. Tip rated to 260°C
(500°F). Warning: Subjecting sensor
tip to temperatures above 316°C
(600°F) will result in damage to tip.

Flexible Tip Surface Probe

HPS-FSP-[*]-14E-12



4.5 mm ($\frac{3}{16}$ ") O.D.

\$85

Radiant energy shield with
fine-gage wire thermocouple
and 304 stainless steel sheath.
Thermocouple tip is exposed to air
flow for fast measurements, and the
constant diameter design facilitates
easy insertion into duct work,
grilles and air vents. Tip rated
to 870°C (1650°F)

Air Probe

HPS-AP-[*]-316E-12

*Insert thermocouple Type J, K, T, E or N



**Rugged!
High Impact
Plastic**

For RTD
thermocouples
please see pages
C-3 and C-4

Made from the same material
as professional football helmets,
these rugged probe handles
have endurance designed in to
provide long life.

70°C (160°F)
Handle Rating

Custom Assemblies Available

Thermocouple probes with integral
high impact plastic handles, with
300 mm (12") retractable cord with
stripped leads (other terminations
are available). Handles are rated
to 70°C (160°F).

Probes shown are available in
RTD, J, K, T and E calibrations.
Other sheath and lead lengths are
available. Consult Sales
Department for details.

Integral Handle Probes General Purpose Design

SUPER
OMEGA CLAD[®] XL
THERMOCOUPLE WIRE
MAXIMUM PERFORMANCE SHEATHING
ELIMINATES HIGH TEMPERATURE DRIFT
Available in Type K or Type N, Consult
Sales for Specifications and Pricing

MADE IN
USA

A

- Heavy Duty
- 300 mm (12") Probe Length Standard†
- 0.3 m (1') Color-Coded Retractable Cable Stretches to 1.5 m (5')
- Handle Rated to 70°C (160°F)
- Stainless Steel or Inconel Sheath
- SMP Molded Miniature Male Connector on Retractable Cable for Fast Hook-up to Instrumentation
- PFA Coating Available
- Inconel N

For probe lengths over the maximum listed, consult quotations for special heavy duty construction probes.

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

Discount	Schedule
1-10 Units	Net
11-24 Unit	10%
25-49 Units	20%
50 and up	Consult Sales

Note: Supplied with HDX aluminum handle for lengths over 600 mm (24"). Consult Sales for pricing.
Cable Termination with Standard Size Connector Available, See ordering example.

Probe Dia. mm (in.)	Max. Length mm (in.)
1.5 (1/16")	900 (36)
3.0 (1/8")	750 (30)
4.5 (3/16")	600 (24)
6.0 (1/4")	450 (18)

To Order (Specify Model Number)

ALL MODELS AVAILABLE FOR FAST DELIVERY!

Thermocouple Alloy	Sheath Dia.	Grounded Junction	Price	Ungrounded Junction	Price	Exposed Junction	Price	Price/Add'l 300 mm (ft)
IRON-CONSTANTAN Inconel Sheath J	1.5 (1/16")	HPS-ICIN-116G-12-SMP-M	\$37	HPS-ICIN-116U-12-SMP-M	\$39	HPS-ICIN-116E-12-SMP-M	\$37	\$1.55
	3.0 (1/8")	HPS-ICIN-18G-12-SMP-M	37	HPS-ICIN-18U-12-SMP-M	39	HPS-ICIN-18E-12-SMP-M	37	3.15
	4.5 (3/16")	HPS-ICIN-316G-12-SMP-M	38	HPS-ICIN-316U-12-SMP-M	40	HPS-ICIN-316E-12-SMP-M	38	4.35
	6.0 (1/4")	HPS-ICIN-14G-12-SMP-M	41	HPS-ICIN-14U-12-SMP-M	43	HPS-ICIN-14E-12-SMP-M	41	7.50
IRON-CONSTANTAN 304SS Sheath J	1.5 (1/16")	HPS-ICSS-116G-12-SMP-M	37	HPS-ICSS-116U-12-SMP-M	39	HPS-ICSS-116E-12-SMP-M	37	1.55
	3.0 (1/8")	HPS-ICSS-18G-12-SMP-M	37	HPS-ICSS-18U-12-SMP-M	39	HPS-ICSS-18E-12-SMP-M	37	1.85
	4.5 (3/16")	HPS-ICSS-316G-12-SMP-M	38	HPS-ICSS-316U-12-SMP-M	40	HPS-ICSS-316E-12-SMP-M	38	3.15
	6.0 (1/4")	HPS-ICSS-14G-12-SMP-M	41	HPS-ICSS-14U-12-SMP-M	43	HPS-ICSS-14E-12-SMP-M	41	5.00
CHROMEGA[®]-ALOMEGA[®] Inconel Sheath K	1.5 (1/16")	HPS-CAIN-116G-12-SMP-M	37	HPS-CAIN-116U-12-SMP-M	39	HPS-CAIN-116E-12-SMP-M	37	1.55
	3.0 (1/8")	HPS-CAIN-18G-12-SMP-M	37	HPS-CAIN-18U-12-SMP-M	39	HPS-CAIN-18E-12-SMP-M	37	3.15
	4.5 (3/16")	HPS-CAIN-316G-12-SMP-M	38	HPS-CAIN-316U-12-SMP-M	40	HPS-CAIN-316E-12-SMP-M	38	4.35
	6.0 (1/4")	HPS-CAIN-14G-12-SMP-M	41	HPS-CAIN-14U-12-SMP-M	43	HPS-CAIN-14E-12-SMP-M	41	7.50
CHROMEGA[®]-ALOMEGA[®] 304SS Sheath K	1.5 (1/16")	HPS-CASS-116G-12-SMP-M	37	HPS-CASS-116U-12-SMP-M	39	HPS-CASS-116E-12-SMP-M	37	1.55
	3.0 (1/8")	HPS-CASS-18G-12-SMP-M	37	HPS-CASS-18U-12-SMP-M	39	HPS-CASS-18E-12-SMP-M	37	1.85
	4.5 (3/16")	HPS-CASS-316G-12-SMP-M	38	HPS-CASS-316U-12-SMP-M	40	HPS-CASS-316E-12-SMP-M	38	3.15
	6.0 (1/4")	HPS-CASS-14G-12-SMP-M	41	HPS-CASS-14U-12-SMP-M	43	HPS-CASS-14E-12-SMP-M	41	5.00
CHROMEGA[®]-CONSTANTAN Inconel Sheath E	1.5 (1/16")	HPS-CXIN-116G-12-SMP-M	37	HPS-CXIN-116U-12-SMP-M	39	HPS-CXIN-116E-12-SMP-M	37	1.85
	3.0 (1/8")	HPS-CXIN-18G-12-SMP-M	37	HPS-CXIN-18U-12-SMP-M	39	HPS-CXIN-18E-12-SMP-M	37	3.75
	4.5 (3/16")	HPS-CXIN-316G-12-SMP-M	38	HPS-CXIN-316U-12-SMP-M	40	HPS-CXIN-316E-12-SMP-M	38	5.00
	6.0 (1/4")	HPS-CXIN-14G-12-SMP-M	45	HPS-CXIN-14U-12-SMP-M	47	HPS-CXIN-14E-12-SMP-M	45	7.50
CHROMEGA[®]-CONSTANTAN 304SS Sheath E	1.5 (1/16")	HPS-CXSS-116G-12-SMP-M	37	HPS-CXSS-116U-12-SMP-M	39	HPS-CXSS-116E-12-SMP-M	37	1.55
	3.0 (1/8")	HPS-CXSS-18G-12-SMP-M	37	HPS-CXSS-18U-12-SMP-M	39	HPS-CXSS-18E-12-SMP-M	37	2.50
	4.5 (3/16")	HPS-CXSS-316G-12-SMP-M	38	HPS-CXSS-316U-12-SMP-M	40	HPS-CXSS-316E-12-SMP-M	38	3.15
	6.0 (1/4")	HPS-CXSS-14G-12-SMP-M	41	HPS-CXSS-14U-12-SMP-M	43	HPS-CXSS-14E-12-SMP-M	41	5.00
COPPER-CONSTANTAN Inconel Sheath T	1.5 (1/16")	HPS-CPIN-116G-12-SMP-M	37	HPS-CPIN-116U-12-SMP-M	39	HPS-CPIN-116E-12-SMP-M	37	1.85
	3.0 (1/8")	HPS-CPIN-18G-12-SMP-M	37	HPS-CPIN-18U-12-SMP-M	39	HPS-CPIN-18E-12-SMP-M	37	3.75
	4.5 (3/16")	HPS-CPIN-316G-12-SMP-M	38	HPS-CPIN-316U-12-SMP-M	40	HPS-CPIN-316E-12-SMP-M	38	5.00
	6.0 (1/4")	HPS-CPIN-14G-12-SMP-M	45	HPS-CPIN-14U-12-SMP-M	47	HPS-CPIN-14E-12-SMP-M	45	7.50
COPPER-CONSTANTAN 304SS Sheath T	1.5 (1/16")	HPS-CPSS-116G-12-SMP-M	37	HPS-CPSS-116U-12-SMP-M	39	HPS-CPSS-116E-12-SMP-M	37	1.55
	3.0 (1/8")	HPS-CPSS-18G-12-SMP-M	37	HPS-CPSS-18U-12-SMP-M	39	HPS-CPSS-18E-12-SMP-M	37	2.50
	4.5 (3/16")	HPS-CPSS-316G-12-SMP-M	38	HPS-CPSS-316U-12-SMP-M	40	HPS-CPSS-316E-12-SMP-M	38	3.15
	6.0 (1/4")	HPS-CPSS-14G-12-SMP-M	41	HPS-CPSS-14U-12-SMP-M	43	HPS-CPSS-14E-12-SMP-M	41	5.00

† Other lengths available, consult Sales Department. For Standard size "OSTW" connector add suffix "-OSTW" to model number and add \$5 to price.
Ordering Example: HPS-CASS-14G-12-SMP-M, Type K probe, 1/4" diameter, 304SS sheath, SMP connector, grounded junction with miniature connector, \$41.



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