



HPT-150 Threaded Probe Temperature Ranges A and E

Specifications

Temperature Ranges:

Temperature Range A

Low: 32° F [0° C]

High: 302° F [150° C]

Temperature Range E

Low: -100° F [-73° C]

High: 400° F [205° C]

Linear Range: 0.100 inches [2.54 millimeters] with a 5 foot [1.52 meters] long Capacitec L2 cable. For cables longer than 5ft consult factory.

Maximum Range: 0.150 inches [3.81 millimeters]

Calibration:

- A 20 point archived calibration record of voltage output versus nominal displacement is provided standard with every probe.
- Several NIST traceable calibrations are available.

Material: Case, guard, and sensor are 303 stainless steel

Driven Guard: The guard element is driven with an electronic voltage of 2V to 20V peak to peak. The guard must not be grounded.

Dip Coating: "-D" epoxy dip coatings are optional to prevent accidental earth grounding or shorting of the elements.

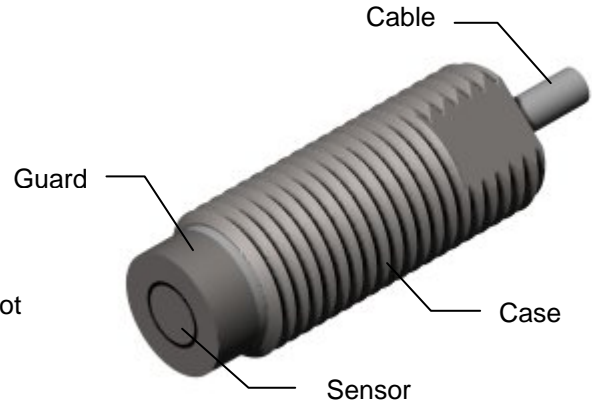
Mounting:

- Probe is designed to be mounted into a 3/8-24 UNF-2B threaded hole. A "Q" (0.332 inch diameter) tap drill must be used to drill the hole.
- Distance to target is adjusted by rotating the probe.
- An optional nut may be used to lock the probe in place.

Cable:

- Coaxial Capacitec L2 or L3 cable is standard.
- Probe must be calibrated with the cable type and length selected.
- Cable must not be cut or spliced.

Probe Lengths: There are 3 standard probe lengths, and 6 non-standard probe lengths. See drawing for dimensions.





HPT- 150 High Temperature Threaded Probe Temperature Ranges V and S

Specifications

Temperature Ranges:

Temperature Range V

Low: -100° F [-73° C]

High: 1600° F [871° C]

Temperature Range S

Low: -100° F [-73° C]

High: 1832° F [1000° C]

Guard

Cable

Case

Sensor

Linear Range: 0.100 inches [2.54 millimeters] with a 5 foot [1.52 meters] long Capacitec T cable. For cable longer than 5ft consult factory.

Maximum Range: 0.150 inches [3.81 millimeters]

Calibration:

- A 20 point archived calibration record of voltage output versus nominal displacement is provided standard with every probe.
- Several NIST traceable calibrations are available.

Material: Case, guard , and sensor are Inconel 600® (range V) or Haynes 230® (range S).

Driven Guard: The guard element is driven with an electronic voltage of 2V to 20V peak to peak. The guard must not be grounded.

Mounting:

- Probe is designed to be mounted into a 3/8-24 UNF-2B threaded hole A "Q" (0.332 inch diameter) tap drill must be used to drill the hole.
- Distance to target is adjusted by rotating the probe.
- An optional nut may be used to lock the probe in place.

Cable:

- high temperature, insulated, coaxial Capacitec T cable is standard.
- Probe must be calibrated with the cable type and length selected.
- At no time may the cable be cut or spliced.

Probe Lengths: There are 3 standard probe lengths, and 6 non-standard probe lengths. See drawing for dimensions.



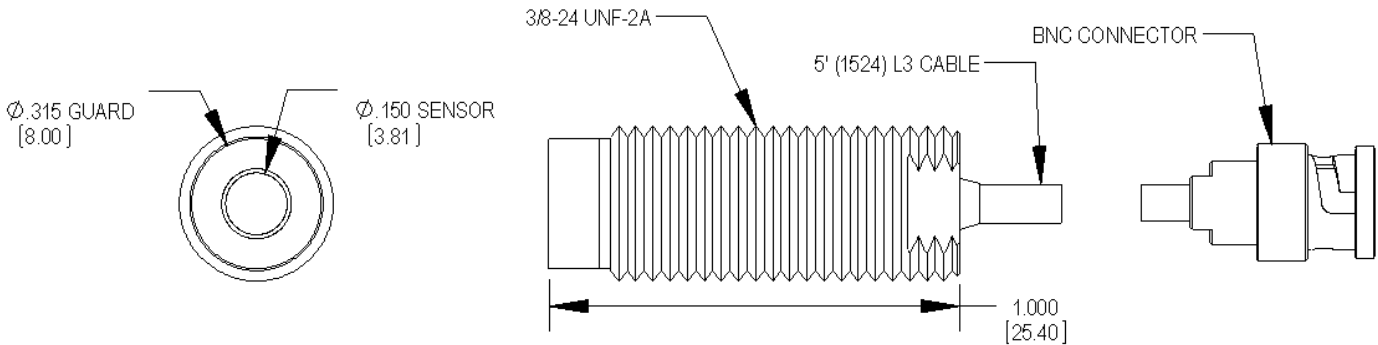
HPT- 150 Threaded Probe Part Number Reference Guide

HPT – 150	X	-	X	-	XX	-	XX	-	X
PROBE LENGTH			OPERATING TEMPERATURE		CABLE TYPE		CABLE LENGTH		CONNECTOR TYPE
A - .500" (12.70)			A - 32 to 302°F (0 to 150°C)		L2 - .093" coax (2.36)		5 - 5' Standard (1524)		M – 10-32 Microdot (Not compatible with I2 or N cable)
B - .625" (15.88)			E - -100 to 400°F (-73 to 205°C)		L3 - .063" coax (1.60)		X - Other in ft.		B – BNC
C - .750" (19.05)									
D - .850" (21.59)			V - -100 to 1600°F (-73 to 371°C)		I2 - .125" coax (3.18)				MCX – MCX (Not compatible with I2 or N cable)
E - 1.000" (25.40)			S - -100 to 1832°F (-73 to 1000°C)		T – High Temp .063" coax (1.60)				
F - 1.250" (31.75)									
G - 1.500" (38.10)									
H - 1.750" (44.45)					N – High Temp .140" coax (3.56)				
I - 2.000" (50.80)									

(DIMENSIONS) IN MILLIMETERS

EXAMPLE: HPT-150E-A-L3-5-B

HPT-150E
A TEMPERATURE RANGE





HPT-150

Standard Threaded Probes

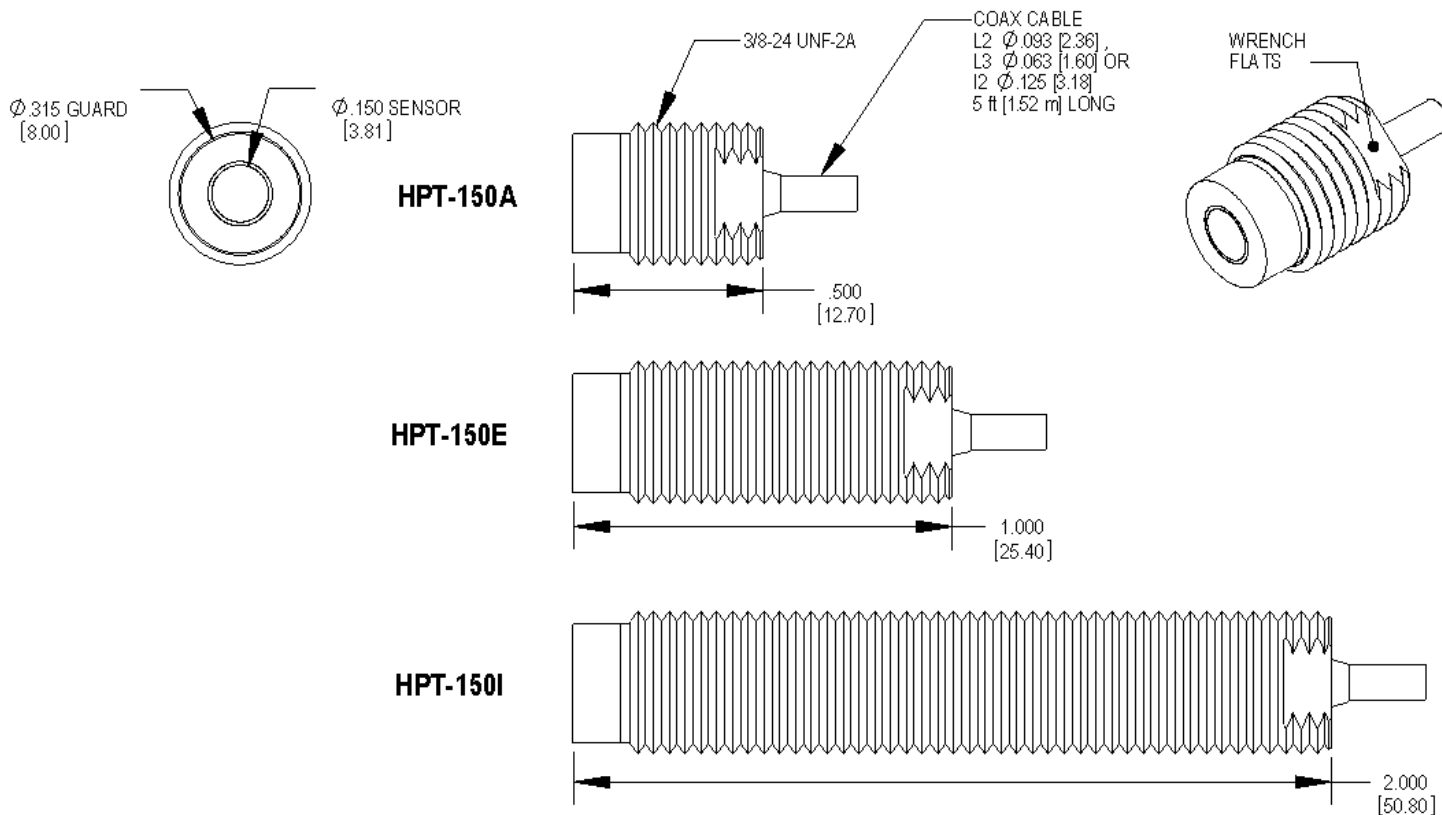
Temperature Ranges A and E

Lengths A, E, and I

DIMENSIONS ARE NOMINAL VALUES

CUSTOM LENGTH OPTIONS	
OPTION	LENGTH
B	.625 [15.88]
C	.750 [19.05]
D	.875 [22.23]
F	1.250 [31.75]
G	1.500 [38.10]
H	1.750 [44.45]

TEMPERATURE RANGE				
OPTION	RANGE (°F)		RANGE (°C)	
	LOW	HIGH	LOW	HIGH
A	32°	302°	0°	150°
E	-100°	400°	-73°	205°



Capacitec

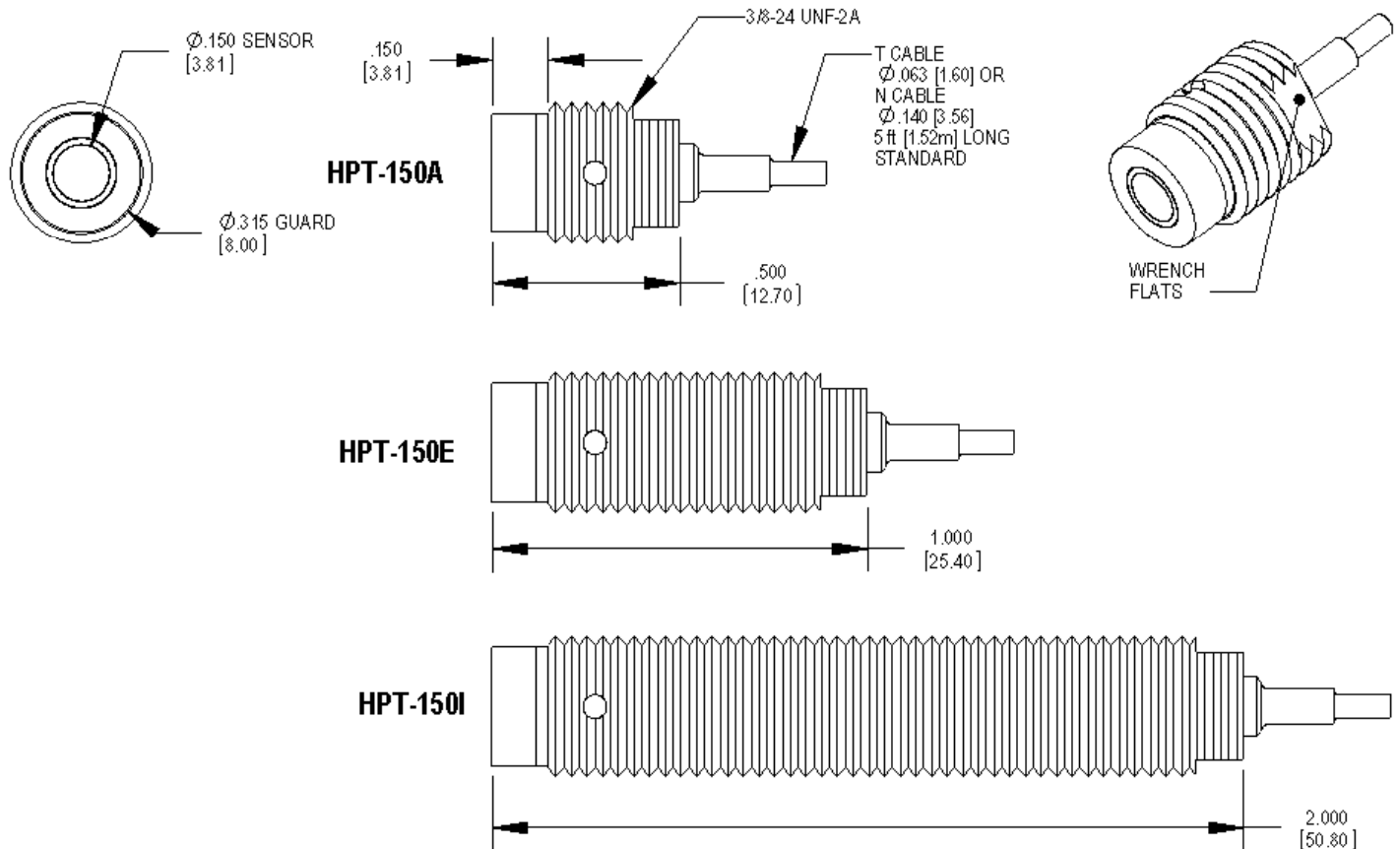
HPT-150

Standard High Temperature
Threaded Probes
Temperature Ranges V and S
Lengths A, E, and I

DIMENSIONS ARE NOMINAL VALUES

CUSTOM LENGTH OPTIONS	
OPTION	LENGTH
B	.625 [15.88]
C	.750 [19.05]
D	.875 [22.23]
F	1.250 [31.75]
G	1.500 [38.10]
H	1.750 [44.45]

TEMPERATURE RANGE				
OPTION	RANGE (°F)		RANGE (°C)	
	LOW	HIGH	LOW	HIGH
V	-100°	1600°	-73°	871°
S	-100°	1832°	-73°	1000°



US Email: sales@capacitec.com
EU Email: eurosales@capacitec.com
Web: www.capacitec.com

Spec-0010
Page 5 of 5
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