



## HPT- 40 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:** 0.020 inches [0.51 millimeters] with a 5 foot [1.52 meters] long Capacitec L2 cable. For cables longer than 5ft consult factory.

**Maximum Range:** 0.040 inches [1.02 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.

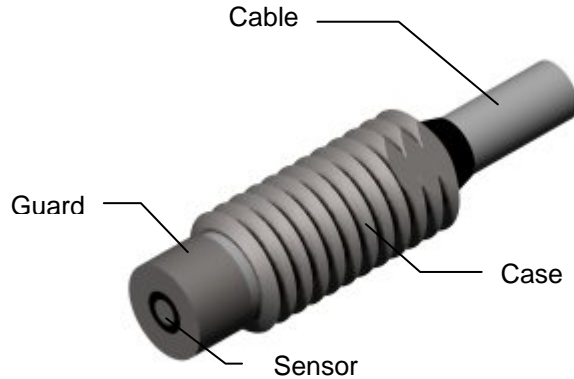
#### Mounting:

- Probe is designed to be mounted into a 10-32 UNF-2B threaded hole. A #21 (0.159 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 used.
- 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.





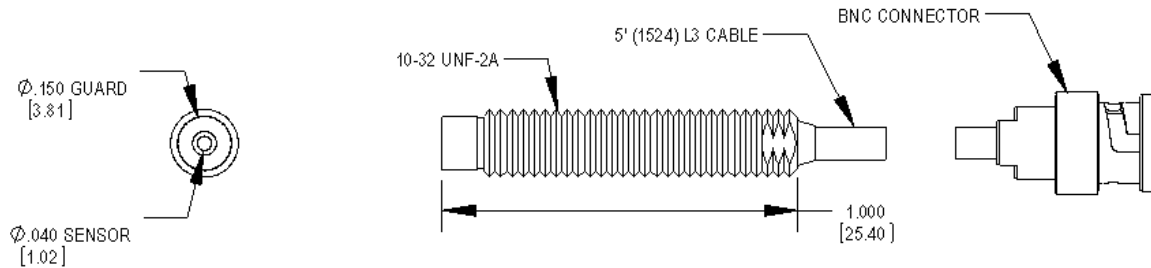
## HPT- 40 Threaded Probe Part Number Reference Guide

HPT – 40	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
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)				MCX – MCX					
D - .850" (21.59)									
E - 1.000" (25.40)									
F - 1.250" (31.75)									
G - 1.500" (38.10)									
H - 1.750" (44.45)									
I - 2.000" (50.80)									

(DIMENSIONS) IN MILLIMETERS

### EXAMPLE: HPT-40E-A-L3-5-B

**HPT-40E**  
A TEMPERATURE RANGE





# HPT-40

## 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°

