



HPC-150 Cylindrical 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.

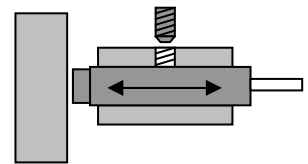
Material: Case, guard, and sensor are 303 stainless steel

Driven Guard: The guard element is driven with an electronic voltage of 2V to 20V peak to peak. Note, 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:

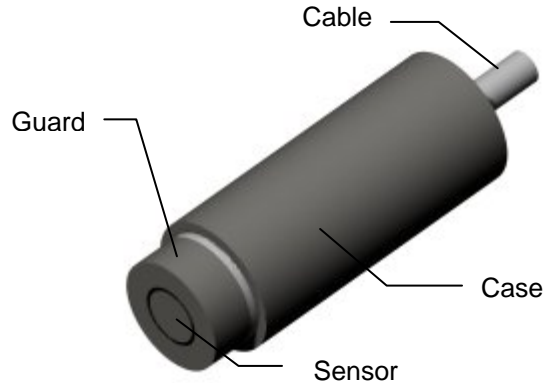
- Probe is designed to be mounted into a 0.375 (3/8) +0.001/-0.000 inch diameter hole.
- It is usually held in place with a set screw.
- Distance to target is adjusted by sliding the probe to the desired distance from the target and locking it in place with the set screw.



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.





HPC-150 Cylindrical 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]

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

Maximum Range: 0.150 inches [3.81 millimeters]

Calibration:

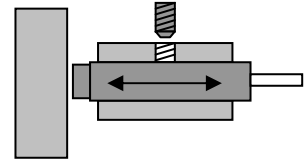
- A 20 point archived calibration record of voltage output versus nominal displacement is provided standard with every probe.
- Several NIST traceable calibrations are available.

Material: Case, guard, and sensor are 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:

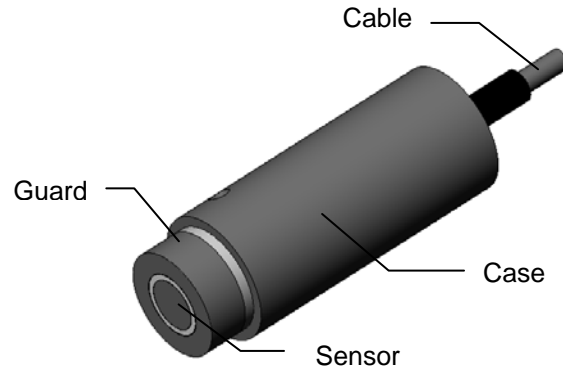
- Probe is designed to be mounted into a 0.375 (3/8) +0.002/-0.000 inch diameter hole.
- It is usually held in place with a set screw.
- Distance to target is adjusted by sliding the probe to the desired distance from the target and locking it in place with the set screw.



Cable:

- High temperature, insulated, coaxial Capacitec T cable is used 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.





HPC- 150 Cylindrical Probe Part Number Reference Guide

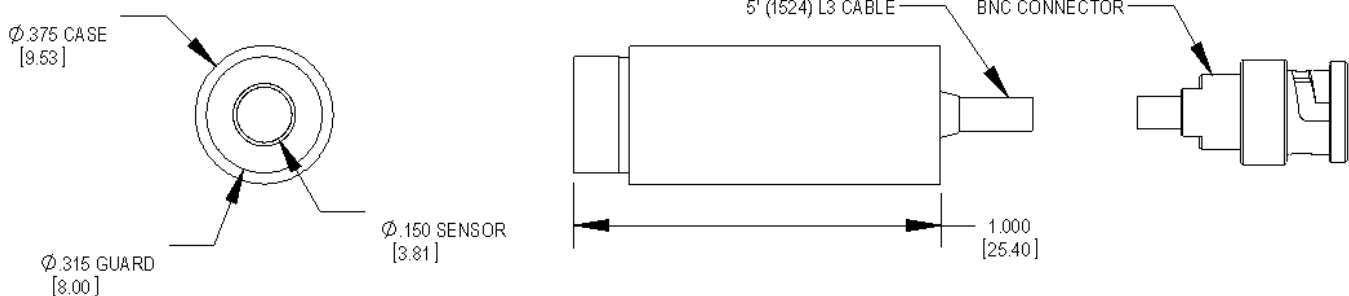
HPC – 150	X	-	X	-	XX	-	XX	-	X
	PROBE LENGTH		OPERATING TEMPERATURE		CABLE TYPE		CABLE LENGTH		CONNECTOR TYPE
	A - .500" (12.70)		A - 32 to 302°F (0 to 150°C)		L2 - .093" coax (2.36)		5 - 5' Standard (1524)		M – 10-32 Microdot (Not compatible with I2 or N cable)
	B - .625" (15.88)		E - -100 to 400°F (-73 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: HPC-150E-A-L3-5-B

HPC-150E

A TEMPERATURE RANGE



Capacitec

HPC-150

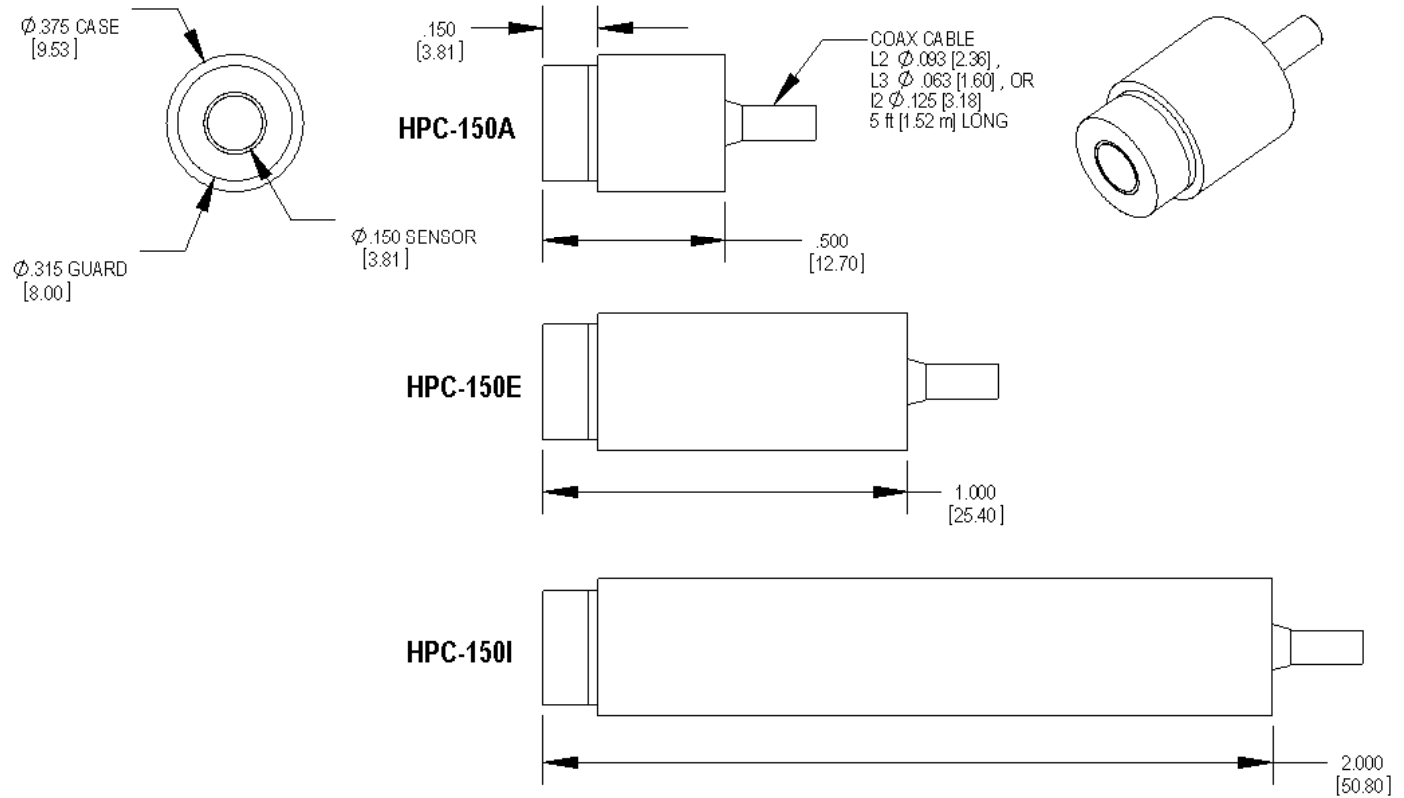
Standard Cylindrical Probes

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°





HPC-75

Standard High Temperature Cylindrical 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 °

