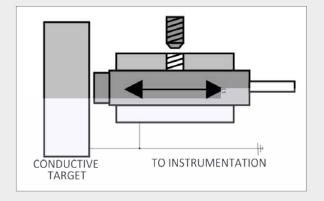
# **≅**Capacitec®

# **HPC 375**

HPC-375 Series Cylindrical Probes for Precision Dimensional Measurement

Capacitec•s HPC non-contact probes are our most popular line of capacitive sensors. The sensor and guard elements are provided in a protective metal case. The HPC family of probes supports cable lengths of up to 10 meters in standard applications.

Built in wrench ats allow for easy installation and adjustments. A set screw or split clamp housing typically holds the assembly in place for easy installation and adjustments. Capacitec also o ers custom congurations. Please consult the Capacitec technical support team for more information.



Adjust probe to desired distance and set screw in place



These probes have the largest displacement to sensor diameter ratio in the industry, yielding twice the linear range of competitors.

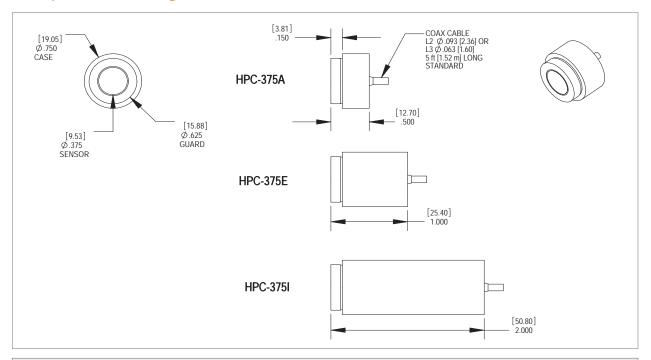
HPC cylindrical probes are available in a wide operational temperature range for precise measurements from cryogenic to 1000°C.



Complete Standard Capacitec HPC family

## **Standard Temperature Probes**

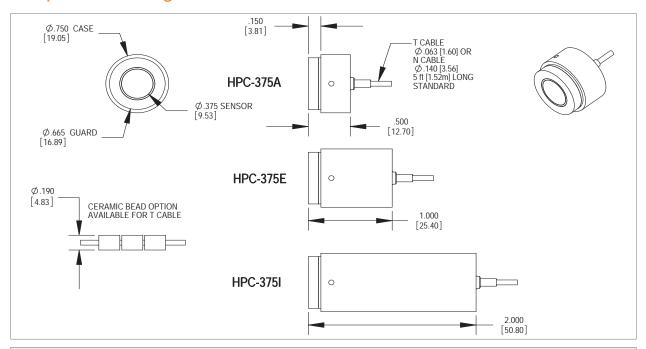
### Temperature Ranges A & E



Linear Range		0.225Ž[5.72]		
Maximum Range		0.375Ž [9.53]		
Material (Case, Guard and Sensor)		303 stainless steel		
Standard Probe engths	А	0.500Ž [12.70]		
	Е	1.000Ž [25.40]		
	1	2.000Ž [50.80]		
	Custom	Custom lengths B to H available  B .625Ž[15.88], C .750Ž[19.05], D .875Ž[22.23],  F 1.250Ž[31.75],G 1.500Ž[38.10], H 1.750Ž[44.45], please consult factory		
Temperature Ranges	А	32°F [0°C] to 302°F [150°C], please consult factory for cryogenic		
(Continuous lde)	E	-100°F [-73°C] to 400°F [205°C], please consult factory for cryogenic		
Sensor OD		0.375Ž [9.53]		
Case OD		0.750Ž[ 19.05]		
Connector Options		Microdot, BNC or MCX, (microdot and MCX not compatible waterable)		
Cable Options OD		L2 0.093Ž [2.36], L3 0.063Ž [1.602] o6.125Ž [3.18], all cable must not be cut or spliced		
Dip Coating		Optional protective epoxy dip coating available		
Calibration NISTraceable		20 point archived calibration record of nominal displacementsus voltage standard		
		Several sensitivities available		
Mounting Hole		0.750Ž +0.002/-0.000, [19.05 +0.051/-0.000]		

# High Temperature Probes

### Temperature Ranges V & S



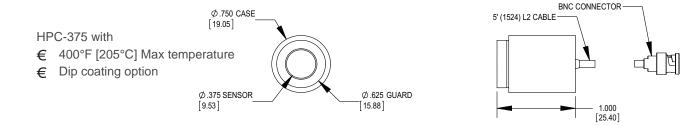
Linear Range		0.250Ž [6.35]			
Maximum Range		0.375Ž[ 9.53]			
Material (Case, Guard and Sensor) V		Inconel 600®			
	S	Haynes 230®			
Standard Probe engths	Α	0.500Ž[12.70]			
	Е	1.000Ž [25.40]			
	1	2.000Ž [50.80]			
	Custom	Custom lengths B to H available  B .625Ž [15.88], C .750Ž [19.05], D .875Ž [22.23],  F 1.250Ž [31.75],G 1.500Ž [38.10], H 1.750Ž [44.45], please consult factory			
Temperature Ranges	V	-100°F [-73°C] to 1600°F [871°C], please consult factory for cryogenic			
(Continuous Use)	S	-100°F [-73°C] to 1832°F [1000°C], please consult factory for cryogenic			
Case OD		0.750Ž [19.05]			
Sensor OD		0.375Ž [ 9.53]			
Connector Options		Microdot, BNC or MCX, (microdot and MCX not compatible with N cable)			
Cable Options OD		T 0.063Ž [1.60] or N 0.140Ž [3.56], all cable must not be cut or spliced			
Dip Coating		Custom coatings available, please consult factory			
Calibration NISTraceable		20 point archived calibration record of nominal displacements very voltage standard			
		Several sensitivities available			
Mounting Hole		0.750Ž +0.002/-0.000, [19.05 +0.051/-0.000]			

### **Ordering Format**



HPC – 375 X	- X -	XX -	XX -	- X -	Χ	
PROBE LENGTH	OPERATING TEMPERATURE	CABLE TYPE	CABLE LENGTH	CONNECTOR TYPE	DIP COATING	
A500" (12.70) B625" (15.88) C750" (19.05) D850" (21.59) E - 1.000"	Standard Temperature  A - 32 to 302°F (0 to 150°C)  E100 to 400°F (-73 to 205°C)	L2093" coax (2.36) L3063" coax (1.60) I2125" coax (3.18)	(1524) (Not compatible with I2 or (N cable) t X - Other in ft. B - BNC	D - For dip coating (only available for A and E temperature probes) Adds .002" (0.05) Leave blank for no coating		
(25.40) F - 1.250" (31.75) G - 1.500" (38.10) H - 1.750" (44.45) I - 2.000" (50.80)	High Temperature  V - ~100 to 1600°F (-73 to od1°C)  S - ~100 to 1832°F (-73 to 1000°C)	T - High Temp .063" semi rigid (1.60)  N - High Temp .140" braided co (3.56)  N2 - N cable with N Over Braid	Specify (DIM	Specify Beads or Over Braid if Desired  (DIMENSIONS) IN MILLIMETERS		

#### EXAMPLE: HPC-375E-E-L2-5-B-D



# **≅**Capacitec®

#### **US HEADQUARTERS**

Capacitec, Inc. 87 Fitchburg Road P.O. Box 819 Ayer, Massachusetts 01432

USA TEL: 978-772-6033

FAX: 978-772-6036 email: sales@capacitec.com

www.capacitec.com

#### **EUROPEAN HEADQUARTERS**

Capacitec Europe 16, rue Sjourné 94044 CRETEIL cedex FRANCE

TEL: 33 1 43 39 48 68 FAX: 33 1 49 80 07 49

email: eurosales@capacitec.com

http://fr.capacitec.com