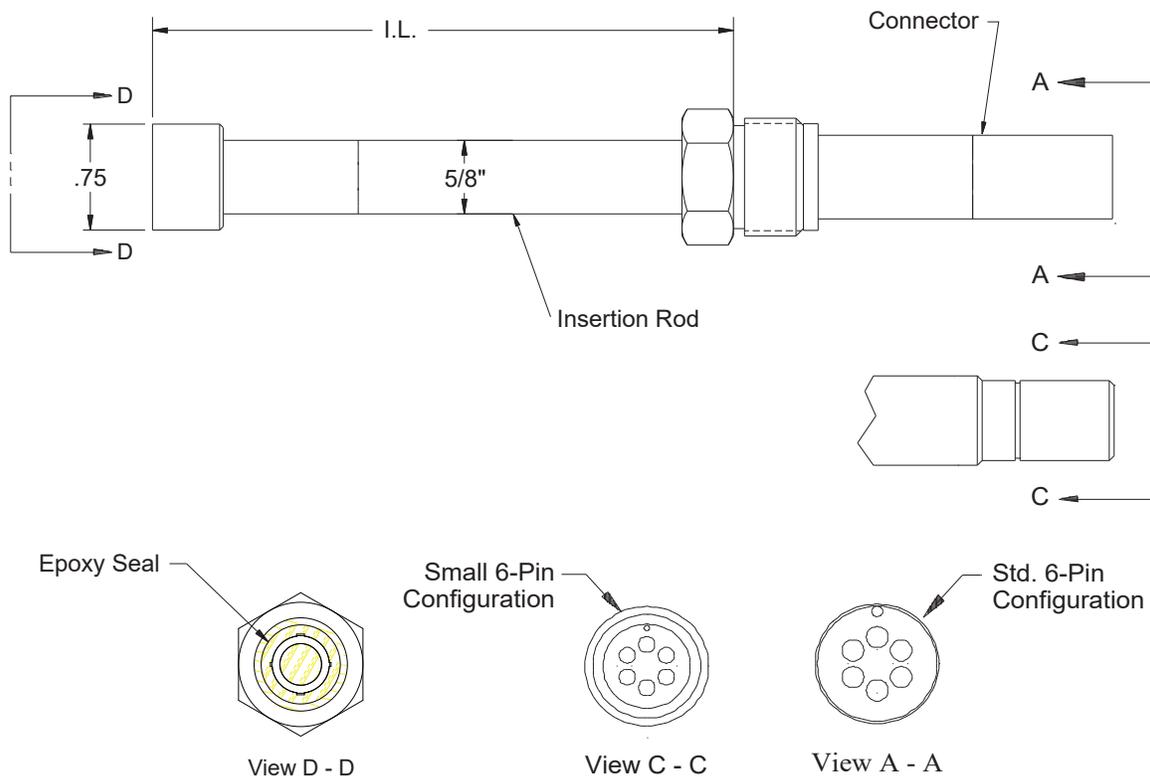


# Model ER7200

## Electrical Resistance Probe, Retrievable with Small Flush Element for High Pressure (HP™ and MH™) Access Systems



**Model ER7200** is a fixed-length, flush-mount, retrievable, electrical resistance probe for use with HP™ and MH™ high pressure access systems. These probes are ideally suited for applications where the probe element needs to be flush with the wall of the pipe. The probe assembly consists of an insertion rod with an element, a hermetically sealed connector, and a hollow plug nut, which are all welded in place. The hollow plug nut on the probe screws into the hollow plug of the access system. This allows the probe to be installed in the process, using a retrieval tool and service valve, without process shutdown. The insertion length (I.L.) can range from a minimum of 1.75" up to any length specified by the customer in 1/8" increments, using the formula:

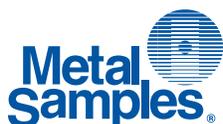
$$I.L. = PD + WT + 1.75''$$

(where PD = penetration depth, WT = wall thickness)

For top-of-the-line, flush-mount monitoring, PD = 0.

**Note:** Formula valid for access fitting heights of 5.25" (HP) and 5.5" (MH).

Several standard elements are available to meet your specific needs. Probe adaptors are available and must be ordered separately.



### Metal Samples Company

A Division of Alabama Specialty Products, Inc.

152 Metal Samples Rd., Munford, AL 36268 Phone: (256) 358-4202 Fax: (256) 358-4515

E-mail: [msc@alspi.com](mailto:msc@alspi.com) Internet: [www.metalsamples.com](http://www.metalsamples.com)

Houston Office: 6327 Teal Mist Lane, Fulshear, TX 77441 Phone: (832) 451-6825

**Specifications:**

**Probe Body** - 316 Stainless Steel

**Element Seal** - Epoxy

**Fill Material** - Epoxy

**Temperature Rating** - 500°F / 260°C

**Pressure Rating** - 3600 PSI / 245 Bar

**Mounting** - High Pressure (HP™ or MH™) Access System with Hollow Plug

**ER7200 Ordering Information**

Model								
HR	Electrical Resistance Probe for High Pressure (HP™ and MH™) Access Systems							
	Mounting Material							
	2	316						
	3	C276						
	Connector Type							
	1	Small connector						
	2	Standard connector						
	ER Element Options							
	A	S4 Flush Mount - 4 mil thickness (2 mil useful probe life)						
	B	S8 Flush Mount - 8 mil thickness (4 mil useful probe life)						
	H	S20 Flush Mount - 20 mil thickness (10 mil useful probe life)						
	Seal Type							
	3	Epoxy						
	Length (Round calculated length down to the nearest 1/8")							
	XXXX	Length in inches, stated in 2 decimal place format (Ex: 6 1/8" = 0612)						
Element Alloy								
XXX	Use Code in Alloy Chart							
ER Probe Options								
00	No shield							
<b>HR</b>	<b>2</b>	<b>2</b>	<b>B</b>	<b>3</b>	<b>0612</b>	<b>375</b>	<b>00</b>	<b>Example of Probe Ordering #</b>

For alloys, sizes, or other special requirements not listed, contact our sales department.

Alloy Chart					
Code	Description	UNS #	Code	Description	UNS #
375	Carbon Steel *	G10100	159	316L SS	S31603
538	5Cr 1/2Mo	K42544	A12	C276	N10276
541	9Cr 1Mo	K90941	602	Alloy 625	N06625
186	410 SS	S41000	419	CDA110	C11000
141	304 SS	S30400	434	CDA443	C44300

Note: Not all alloys are available with all element types and seals.

\* Chemically equivalent to standard pipe-grade carbon steels.