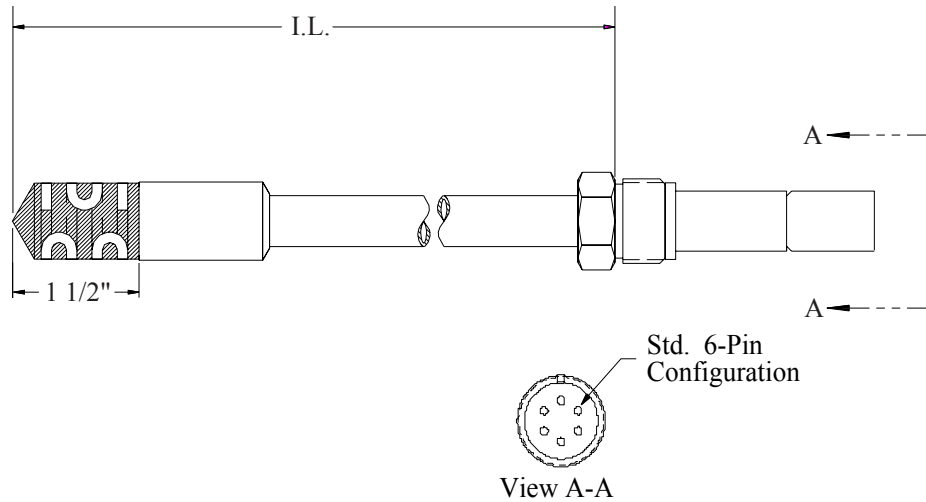


# Model ER7300

## Electrical Resistance Probe, Retrievable Spiral Loop for High Pressure (HP™ and MH™) Access Systems



**Model ER7300** spiral loop probe is a retrievable, electrical resistance probe designed for use with both the HP™ and MH™ high pressure access systems. The element is a spiral wound strip encased in epoxy. This approach to element construction offers several advantages over other element geometries:

- High intrinsic resistance - provides highly stable readings with low susceptibility to noise.
- High element strength - allows use in very high flow rate regimes such as a gas transmission.
- Wide spacing of element loops - minimizes the risk of iron sulphide scaling and bridging.

While the spiral loop probe is ideally suited to fast flowing, sour systems, its high stability makes it a suitable choice for all oil and gas systems.

Insertion length (I.L.) can range from a minimum of 3.75" up to any length (in 1/8" increments) specified by the customer, using the formula:

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

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

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

### Specifications:

**Probe Body** - 316 Stainless Steel

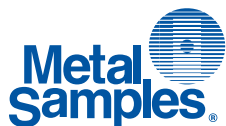
**Element Seal** - Epoxy

**Element Material** - AISI 1018

**Temperature Rating** - 250°F / 121°C

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

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



#### Metal Samples Company

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## ER7300 Ordering Information

Model							
HR	Electrical Resistance Probe for High Pressure (HP™ and MH™) Access Systems						
<b>Mounting Material &amp; Connector Type</b>							
	22	316 stainless steel with standard connector					
<b>ER Element Options</b>							
		K	SP10 Spiral Loop - 10 mil thickness (5 mil useful probe life)				
		L	SP20 Spiral Loop - 20 mil thickness (10 mil useful probe life)				
<b>Seal Type</b>							
			3	Epoxy			
<b>Length</b> (Round calculated length down to the nearest 1/8")							
			XXXX	Length in inches, stated in 2 decimal place format (Ex: 6 1/8" = 0612)			
<b>Element Alloy</b>							
			XXX	Use Code in Alloy Chart			
<b>ER Probe Options</b>							
				00	No shield		
<b>HR</b>	<b>22</b>	<b>K</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.