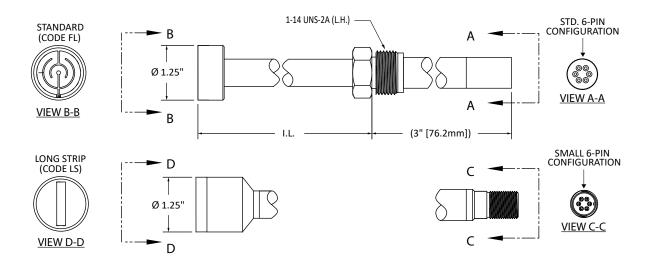
Model ER7210

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



Model ER7210 is a fixed-length, flush-mount, retrievable, electrical resistance probe for use with HPTM and MHTM 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).

Two element options are available - the standard flush element which has a geometry that is specially designed to optimize element resistance, and the long strip element which is designed for use in systems where conductive deposits could bridge the standard element.

Specifications:

Probe Body - 316 Stainless Steel

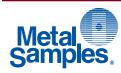
Element Seal - Epoxy

Fill Material - Epoxy

Temperature Rating - 500°F / 260°C

Pressure Rating - 3600 PSI / 245 Bar

Mounting - High Pressure (HPTM or MHTM) Access System with Hollow Plug



ER7210 Ordering Information

Model												
HR	Ele	Electrical Resistance Probe for High Pressure (HP™ and MH™) Access Systems										
	Мо	Mounting Material										
	2 3	316 C276										
		Connector Type										
		1 2		mall connector andard connector								
			ER I	ER Element Options								
			D3 E3 F3 R3 S3	FL10 Flush Mount - 10 mil thickness (5 mil useful probe life) FL20 Flush Mount - 20 mil thickness (10 mil useful probe life) FL40 Flush Mount - 40 mil thickness (20 mil useful probe life) LS10 Flush Mount Long Strip (Large Header) - 10 mil thickness (5 mil useful probe life) LS20 Flush Mount Long Strip (Large Header) - 20 mil thickness (10 mil useful probe life)								
				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 Pi	obe Options					
						00	No shield					
HR	2	2	D3	0612	375	00 Example of Probe Ordering #						

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.