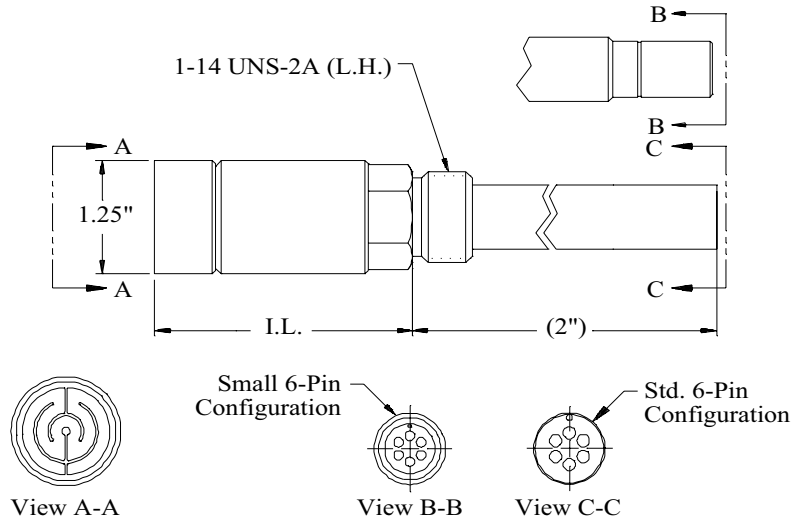


Model ER7220

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



Model ER7220 is an adjustable-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 to prevent any obstructions. 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 in 1" increments (specify lengths over 1.75" as 2", 3", 4", etc.) specified by the customer, using the formula below. The adjustable flush element allows for a total adjustment of 1".

$$\text{I.L.} = \text{PD} + \text{WT} + 1.75"$$

(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.

Specifications:

Probe Body - 316 Stainless Steel

Element Seal - Epoxy

Fill Material - Epoxy

O-Ring Material - Viton (other materials available)

Temperature Rating - 500°F / 260°C

Pressure Rating - 3600 PSI / 245 Bar

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

Supplied by:



Anode Engineering Pty Ltd | Engineering Services
30 Chetwynd Street Loganholme, Queensland 4129
Australia
P: 1800 446 400
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ER7220 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 | | | | | | |
| | C3 | FL05 Flush Mount - 5 mil thickness (2.5 mil useful probe life) | | | | | |
| | D3 | FL10 Flush Mount - 10 mil thickness (5 mil useful probe life) | | | | | |
| | E3 | FL20 Flush Mount - 20 mil thickness (10 mil useful probe life) | | | | | |
| | F3 | FL40 Flush Mount - 40 mil thickness (20 mil useful probe life) | | | | | |
| | Length (Round calculated length down to the nearest inch) | | | | | | |
| | XXXX | Length in inches, stated in 2 decimal place format (Ex: 6" = 0600) | | | | | |
| | Element Alloy | | | | | | |
| | XXX | Use Code in Alloy Chart | | | | | |
| | ER Probe Options | | | | | | |
| | AD | No shield, adjustable | | | | | |
| HR | 2 | 2 | C3 | 0600 | 375 | AD | 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.

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