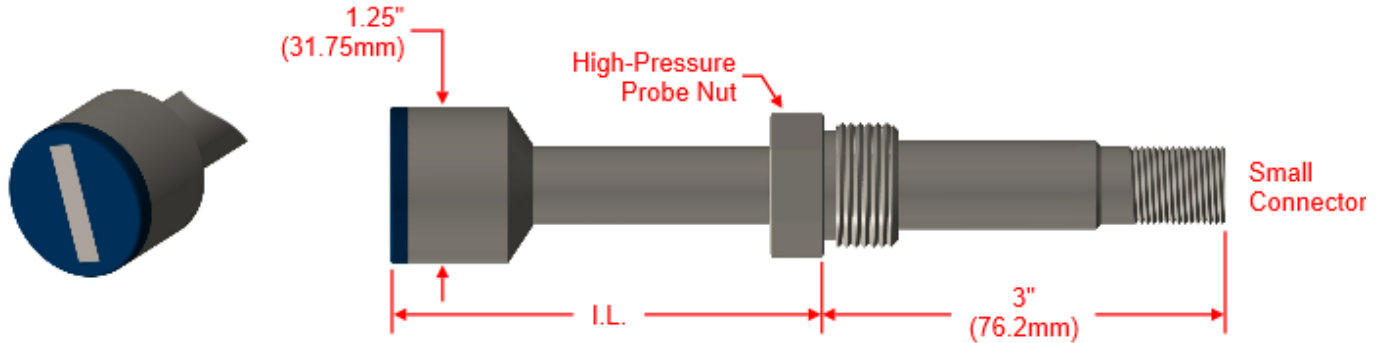


Model ER7210-ME

Special* ER Probe with Flush Element

Retrievable Type for use in High Pressure (HP™ and MH™) Access Systems



Model ER7210-ME series of probes operates based on the ER technique, and is specially designed for use with high resolution instruments from other suppliers. Model ER7210-ME probes are manufactured using superior materials and techniques to provide improved performance. Better potting materials ensure greater stability by improving heat-transfer efficiency, while laser-welded wire connections extend the functional temperature range of the probe, and ensure reliable, low-resistance connections. In addition, Model ER7210-ME flush probes are encapsulated using Ryton® PPS which provides excellent chemical resistance, thermal stability, and strength.

Model ER7210-ME is a fixed-length, flush-mount, retrievable probe for use with HP™ and MH™ high pressure access systems. 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).

The flush-mount element is ideally suited for applications such as pigged pipelines or high-flow systems where the probe face needs to be flush with the wall of the pipe.

Specifications:

Probe Body - 316 Stainless Steel (other materials available upon request)

Element Seal - Ryton® PPS¹

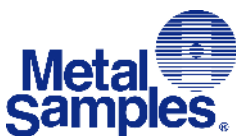
Fill Material - Ceramic

Temperature Rating - 500°F / 260°C

Pressure Rating - 3600 PSI / 245 Bar

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

** ER7210-ME is designed to be compatible with high-resolution or "high speed" instruments from other manufacturers. For the Metal Samples standard probe see model ER7210.*



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 Internet: www.metalsamples.com

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

Model ER7210-ME Ordering Information

| | | | | | | | | | |
|----------------------------|--|---|--|--|--|--|--|--|--|
| Model | | | | | | | | | |
| HR | High-Resolution ER Probe for use in High Pressure (HP™ and MH™) Access Systems | | | | | | | | |
| Body Material | | | | | | | | | |
| | 2 | 316L Stainless Steel | | | | | | | |
| | 3 | C276 | | | | | | | |
| Connector Type | | | | | | | | | |
| | 5 | Small/Threaded Connector | | | | | | | |
| Element Type | | | | | | | | | |
| | C | FL05 Flush Mount - 5 mil thickness (2.5 mil useful probe life) | | | | | | | |
| | D | FL10 Flush Mount - 10 mil thickness (5 mil useful probe life) | | | | | | | |
| | E | FL20 Flush Mount - 20 mil thickness (10 mil useful probe life) | | | | | | | |
| Seal Type | | | | | | | | | |
| | 3 | Epoxy | | | | | | | |
| | 4 | Ryton® PPS ¹ | | | | | | | |
| Length | | | | | | | | | |
| | XXXX | Length in inches, stated in 2 decimal place format (Ex: 6 1/8" = 0612) | | | | | | | |
| Element Alloy ² | | | | | | | | | |
| | 375 | Pipe-Grade Carbon Steel ³ | | | | | | | |
| | 141 | 304L Stainless Steel | | | | | | | |
| | 159 | 316L Stainless Steel | | | | | | | |
| Shield Options | | | | | | | | | |
| | 00 | N/A - No Shield | | | | | | | |
| Wiring | | | | | | | | | |
| | -ME | Special | | | | | | | |

| | | | | | | | | | |
|----|---|---|---|---|------|-----|----|-----|----------------------|
| HR | 2 | 5 | E | 3 | 0412 | 375 | 00 | -ME | Example Part# |
|----|---|---|---|---|------|-----|----|-----|----------------------|

¹ Ryton® PPS seal available standard with carbon steel elements. Other alloys available by special order. Contact our sales department for pricing information.

² Other element alloys available. Consult your Metal Samples' sales representative.

³ Chemically equivalent to common pipe-grade carbon steels.