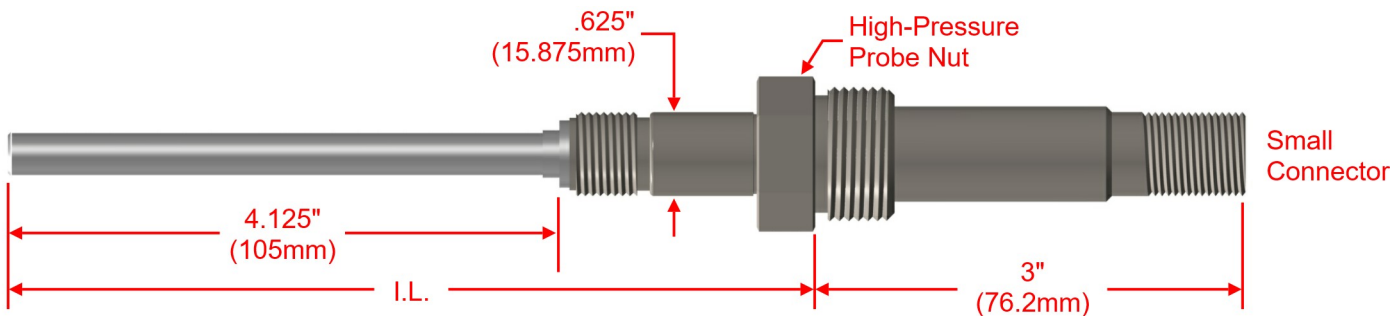


Model ER7100-HS

Special* ER Probe with Cylindrical Element

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



Model ER7100-HS series of probes operates based on the ER technique and is specially designed for use with high resolution instruments from other suppliers. Model ER7100-HS 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.

Model ER7100-HS is a fixed-length, cylindrical-type, 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 5" 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)

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

The cylindrical element is all-welded and does not utilize a non-metallic seal. This extends its operating range and makes it ideal for higher temperature applications. Velocity shields are available for high-flow systems.

Specifications:

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

Element Seal - Metal / All-Welded

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

**ER7100-HS is designed to be compatible with high-resolution or "high speed" instruments from other manufacturers. For the Metal Samples standard probe see model ER7100.*



Metal Samples Company

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Model ER7100-HS 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								
	50	CT10 Cylindrical - 10 mil thickness (5 mil useful probe life)							
	60	CT20 Cylindrical - 20 mil thickness (10 mil useful probe life)							
	70	CT50 Cylindrical - 50 mil thickness (25 mil useful probe life)							
	Length								
	XXXX	Length in inches, stated in 2 decimal place format (Ex: 6 1/8" = 0612)							
	Element Alloy ¹								
	375	Pipe-Grade Carbon Steel ²							
	141	304L Stainless Steel							
	159	316L Stainless Steel							
	Shield Options								
00	N/A - No Shield								
01	Standard Shield								
02	High-Velocity Shield								
Wiring									
-ME	Special								

HR	2	5	60	0750	375	01	-ME	Example Part#
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¹ Other element alloys available. Consult factory.

² Chemically equivalent to common pipe-grade carbon steels.