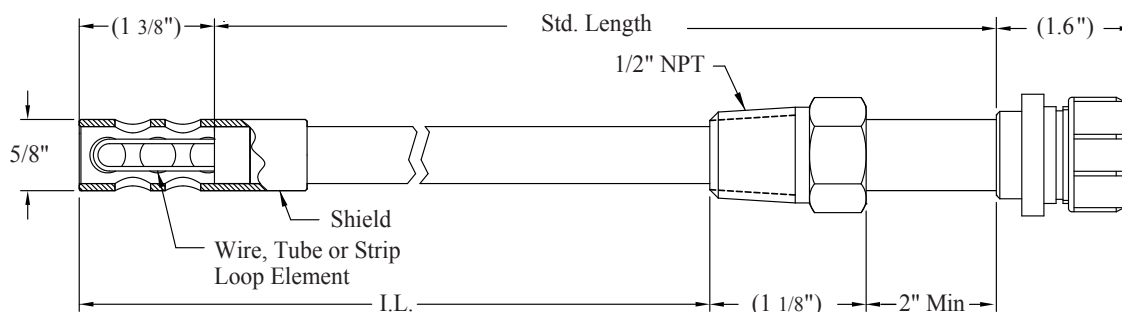


Model ER1000

Electrical Resistance Probe with 1/2" NPT Pipe Plug and Loop Element



Model ER1000 is a fixed-length, electrical resistance probe with a 1/2" NPT pipe plug. The probe requires process isolation or process shutdown to install and a threaded pipe fitting to mount. The probe assembly consists of an insertion rod with an element, a hermetically sealed connector, a 1/2" NPT pipe plug, and a velocity shield, which are all welded in place. The insertion length (I.L.) is calculated to the end of the shield and can be specified by the customer. For standard probes, the maximum insertion length is given in the chart below. Several standard loop elements are available to meet your specific needs.

Specifications:

Probe Body - 316 Stainless Steel

Element Seal - Glass or Teflon®

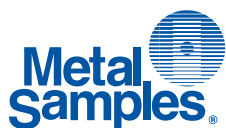
Fill Material - Ceramic

Temperature Rating - 500°F / 260°C

Pressure Rating - 3000 PSI / 204 Bar

Mounting - 1/2" NPT Pipe Plug

Std. Length	IL (max)
5"	2.08"
8"	5.08"
12"	9.08"
18"	15.08"



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ER1000 Ordering Information

Model									
EP21	Electrical Resistance 1/2" NPT Pipe Plug Probe								
	Probe Body Material								
	22	316							
	44	C276							
	ER Element Options								
	00	WR40 Wire Loop - 40 mil thickness (10 mil useful probe life)							
	10	WR80 Wire Loop - 80 mil thickness (20 mil useful probe life)							
	20	TU04 Tube Loop - 4 mil thickness (2 mil useful probe life)							
	30	TU08 Tube Loop - 8 mil thickness (4 mil useful probe life)							
	Seal Type								
	1	Glass							
	2	Teflon®							
	3	Epoxy							
	Length								
	05	2.08 inches max. insertion length							
	08	5.08 inches max. insertion length							
	12	9.08 inches max. insertion length							
	18	15.08 inches max. insertion length							
	Element Alloy								
	XXX	Use Code in Alloy Chart							
	ER Probe Options								
	00	No shield							
	03	Shield							
	Insertion Length (I.L.)								
	-LLLL	Length in inches, stated in 2 decimal place format. Round calculated length down to the nearest 1/8". (Ex: 4 1/8" = 0412)							
EP21	22	10	1	08	375	03	-0412	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.