Model ER3110

Electrical Resistance Probe

Adjustable Length with 3/4" NPT Pipe Plug, Cylindrical Element and Non-Metallic Probe Body



Model ER3110 is an adjustable-length, electrical resistance probe with a 3/4" NPT compression fitting and a non-metallic probe body. The compression fitting allows the probe to be inserted into the process to the required length. The non-metallic body provides electrical isolation between the probe element and the vessel. This can be useful in systems where galvanic problems and stray currents may cause accelerated corrosion of the probe element, causing an over-estimation of the system's corrosion rate. The probe requires process isolation or process shutdown to install and a threaded pipe fitting to mount. The probe assembly consists of an epoxy-filled insertion rod with an element, a 6-pin connector, and a 3/4" compression fitting. The insertion length (I.L.) is calculated to the end of the element. The maximum insertion length (I.L.) is 9.5". Several standard elements are available to meet your specific needs.

Specifications: Probe Body - Glass Epoxy Endcap Seal - Epoxy Fill Material - Epoxy Temperature Rating (w/ Nylon compression fitting) - 150°F / 65°C Pressure Rating - 100 PSI / 7 Bar Mounting - 3/4" NPT Pipe Plug

Supplied by:



Anode Engineering Pty Ltd | Engineering Services 30 Chetwynd Street Loganholme, Queensland 4129 Australia P: 1800 446 400 E: admin@anodeengineering.com www.anodeengineering.com

ER3110 Ordering Information

Model													
ER3	Electri	lectrical Resistance Adjustable Length Pipe Plug Probe											
	Pipe Plug Size												
	2 3/4" NPT Pipe Plug Probe Body Material												
	7E Epoxy ER Element Options												
			503	CT10	0 mil thickness (5 mil useful probe life)								
			603	CT20 Cylindrical - 20 mil thickness (10 mil useful probe life)									
			703	C150 Cylindrical - 50 mil thickness (25 mil useful probe life)									
				Length									
				11	9.5" max. insertion length Element Alloy								
					XXX	Use Code in Alloy Chart							
						ER Probe Options							
						00	None						
ER3	2	7E	503	11	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.

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