Model 620HD/650



#### **Features**

- Operation Grounding Lead Option for Use with Cathodically Protected Structures
- Probe Construction Injection Molded/Epoxy (620HD), All Welded Element (650) Both include Measure/Reference & Check Element
- Cable Connection Heavy Duty Length as Required (620HD)
  Heavy Duty, Length as Required with Bonded Heat Shrink Sleeving onto Element (650)
- Max. Temp = 160F (70°C)

The Cosasco Model 620HD and 650 Electrical Resistance (ER) probes are designed for underground and structural monitoring of pipelines, vessels, above and below ground storage tanks and structures-- whether cathodically protected or not. The Model 620HD ER probe is a heavy duty assembly with a check element which is suited to the "construction site" environment. The Model 650 ER probe is ecomonical and durable. Its slim profile is convenient for locations with restructed access such as concrete bridge structures and other infrastructure appliations. Both probes provide good sealing to the reference element, and the check element provides confidence in the continued performance of the corrosion sensor. Either probe can be connected (or not connected) to a cathodically protected structure. When electrically

connected, the probe provides a continuous record on the effectiveness of the Cathodic Protection (C.P.) system under all the operating conditions.

When the probe is not connected to the structure, it monitors the corrosivity of the soil or environment around the structure. In some cases, it may be beneficial to monitor both C.P. System and the environment, which would entrail the use of two probes. The probes may be ordered with or without a grounding lead for C.P. system. The lead may be installed at the probe or connector end, whichever is most convenient. In most cases, a lead at the monitoring connector end is preferred, with a separate lead running to the structure or C.P. System. This enables connection to the C.P. System to be made as required, even after probe installation.

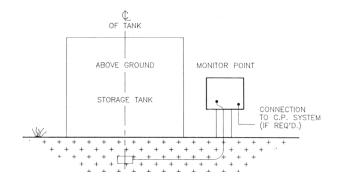


# **Typical Installations**

#### **Underground Pipeline Monitoring**

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#### **Above Ground Storage Tank Monitoring**



<sup>\*</sup>It is recommended that the probe be bonded (electrically connected) directly to the protected structure, not at the rectifier or galvanic anode.

# **Element Availability**

UNS Number	ALLOY	S10	S20	S40	T10	T20	T50
K03005	Pipe Grade Carbon Steel				•	•	•
	Useful Range (Inches)	.005	.010	.020	.005	.010	.025
	Useful Range (mm)	.127	.254	.508	.127	.254	.635

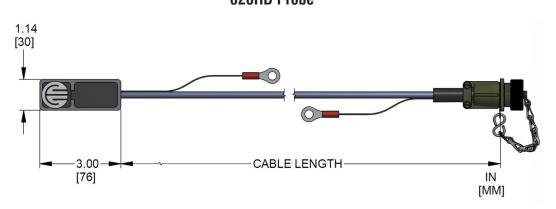
620HD Probe Type: Flush (B) 650 Probe Type: Special (D)

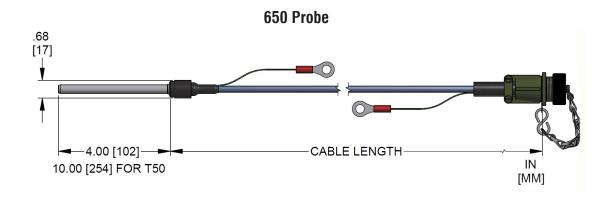
#### Note:

- ☐ **Denotes** availability for Model 620HD
- **Denotes** availability for Model 650

## **Dimensions**

### 620HD Probe





# **Ordering Information**

Model	Underground ER Probes								
620HD	Heavy Du	eavy Duty, Service ER Probe Assembly							
650	Heavy Du	Heavy Duty, Cylindrical Service ER Probe Assembly							
	Code	Groundir	g Connection						
	1	Groundir	Frounding Lead at Connector End						
	2	Groundir	g Lead at Probe End						
		Code	Cable Order Length						
		S10	Model 62	Model 620HD Only - Flush Strip Element, 10 mil thickness (5 mil useful probe life)					
		S20	Model 62	Model 620HD Only - Flush Strip Element, 20 mil thickness (10 mil useful probe life)					
		S40		Model 620HD Only - Flush Strip Element, 40 mil thickness (20 mil use probe life)					
		T10	Model 650 Only - 10 mil thickness (5 mil useful probe life)						
		T20	Model 650 Only - 20 mil thickness (10 mil useful probe life)						
		T50		Model 650 Only - 50 mil thickness (25 mil useful probe life)					
			Code Element Alloy						
		K03005 Carbon Steel							
			YYYYYY	YYYYYY Other UNS Number (Specify)					
				Code	Cable Order Length				
				LL	Cable Length in Feet				
\	\	\	\	<b>\psi</b>					
620HD -	_ 2 _	- S10 <b>-</b>	– K03005 -	100	<b>←</b> Example				

#### Cosasco

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620HD-DS rev-D Rev. Date 02/21/2019