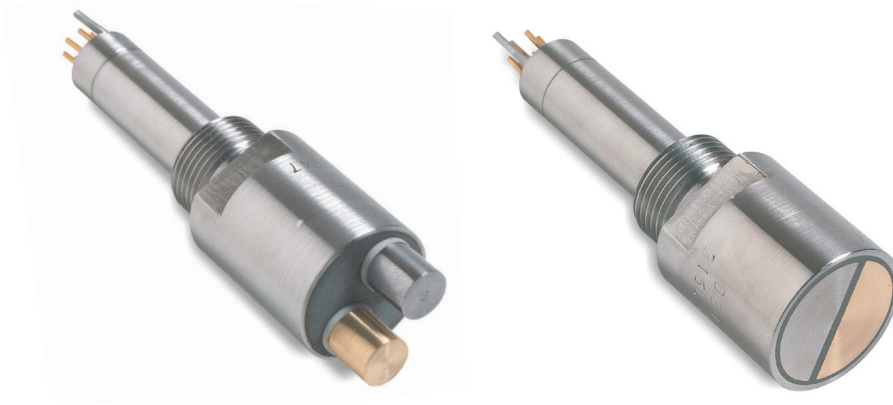


# Roxar Galvanic Probes

## 2" Retrievable System



### Immediate Detection of Oxygen

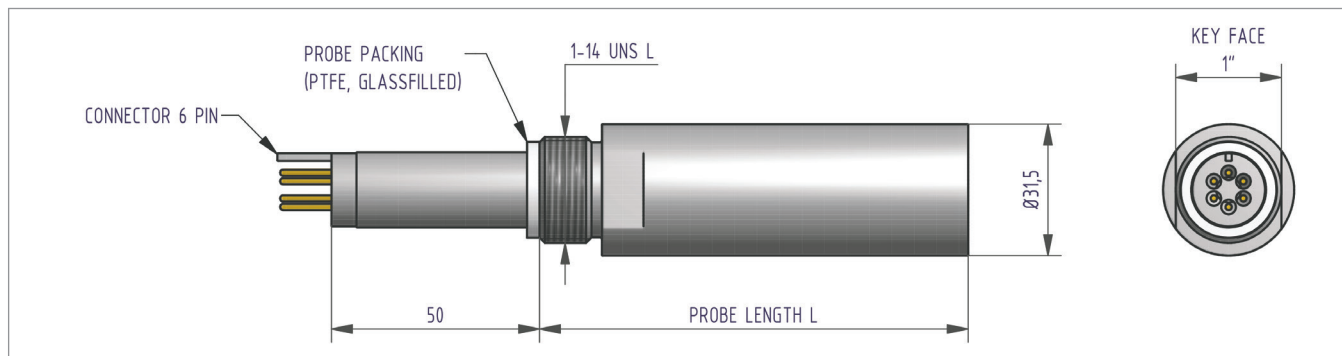
Galvanic Probes are normally used for detection of oxygen ingress in environments that are intended to be oxygen free.

The probe has one brass electrode and one carbon steel electrode. When electrically connected and electrodes embedded in an electrolyte, a galvanic cell is formed. The current in the circuit will normally be limited by the cathode reaction on the brass electrode (oxygen reduction or hydrogen gas formation). If present, oxygen will be the dominant cathode reaction, providing a significantly higher galvanic current flow than from hydrogen gas formation only.

Hence, Galvanic Probes give an immediate warning if oxygen is penetrating into a system where it should not be present. Galvanic Probes are not recommended for quantitative oxygen assessments.

Quality of information and measurement accuracy depend on measurement frequency and instruments used. For best results, it is recommended that Roxar Galvanic Probes are used with Roxar CorrLog instrument, covering a wide range of configuration options.

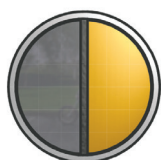
Operating conditions differ from application to application, and it is important to choose the right probe for the specific application. For this reason, two different Galvanic Probe designs are offered.



Drawing show Galvanic Probe outline and basis for probe length calculations.

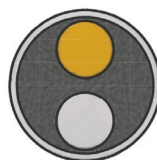


A special reinforced probe design is available for conditions where velocities are high, sometimes in combination with a need for long probes. Need for reinforced design probes is normally evaluated based on wake frequency calculations. Picture shows reinforced probe body with reinforced hollow plug.



**Galvopro B Probe**

Galvopro B Probe is designed for flush installation into pipes or vessels.



**Galvopro C Probe**

The Galvopro C Probe is designed for projecting installation.

**Specifications - Roxar Retrievable Galvanic Probes**

Item	Description
Mounting:	2" high pressure access fitting (mechanical or hydraulic system)
Probe body material:	316 SS (other materials available upon request)
Pressure rating:	6,000 psi (420 bar) standard, 10,000 psi (690 bar) optioal
Connector:	6 pin Amphenol male
Temperature rating:	Operating Temperature up to 145 °C (293 °F)
Electrode surface:	300 mm <sup>2</sup>

## Model Code Selector - Roxar Galvanic Probes

Model	Product Description		
THCMPR	Corrosion Monitoring Probe		
Code	Measuring Method		
3	Galvanic Monitoring		
Code	Probe Body Type		
01	Standard Design Fixed Length		
02	Reinforced Design Fixed Length for Access Fitting Flareweld		
03	Reinforced Design Fixed Length for Access Fitting MECH $\leq$ 300#, HYD $\leq$ 1500#		
04	Reinforced Design Fixed Length for Access Fitting MEC $\geq$ 4/600#, HYD 2500#		
99 <sup>5</sup>	Other Design		
Code	Probe Body Material		
2C6A	Stainless Steel A 479 Gr. 316L, bar	EN 10204 3.1 NACE MR0175	
2D6A	Duplex A 276 / A 479 UNS S31803, bar	EN 10204 3.1 NACE MR0175	
2C6C	Stainless Steel A 479 Gr. 316L, bar	EN 10204 3.1 NACE MR0175	NORSOK M630 MDS S01
2D6C	Duplex A 276 / A 479 UNS S31803, bar	EN 10204 3.1 NACE MR0175	NORSOK M630 MDS D47
9X9X <sup>5</sup>	Project Specific Material		
Code	Element Type and Material		
40S	Flush	Galvopro B	St 52-3N, Brass
50S	Projected	Galvopro C	St 52-3N, Brass
99X <sup>5</sup>	Other Element Material and/or Type		
Code	Probe Length		
L00 <sup>4</sup>	Flush:55-85, Tubular:130-180		
L01 <sup>4</sup>	Flush:85-115, Tubular:180-240		
L02 <sup>4</sup>	Flush:115-145, Tubular:240-300		
L03 <sup>4</sup>	Flush:145-175, Tubular:300-360		
L04 <sup>4</sup>	Flush:175-205, Tubular:360-420		
L05	Flush:205-235		
L06	Flush:235-265		
L07	Flush:265-295		
L08	Flush:295-325		
L09	Flush:325-355		
L10	Flush: 355-385		
L11	Flush: 385-415		

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L12	Flush: 415-445
L13	Flush: 445-475
L14	Flush: 475-505
L15	Flush: 505-++
Code	Factory Options
Z	Standard product
X	ETO product
Code	Certificate, Tests, Calibrations and Services (Not Required, all are optional)
	<i>Dye Penetrant Examination (select any from this group)</i>
D1	Dye Penetrant Test
	<i>Positive Material Testing (select only one from this group)</i>
PM	Positive Material Identification
	<i>Pressure Testing (select any from this group)</i>
PT	10000 psi Test Certificate
	<i>Other testing</i>
TX <sup>5</sup>	Project specific testing

<sup>4</sup> Available only with Probe Body Type option 01, Standard Design Fixed Length

<sup>5</sup> Not Available with Factory Option Z

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