

LINEAR POLARISATION RESISTANCE PROBES

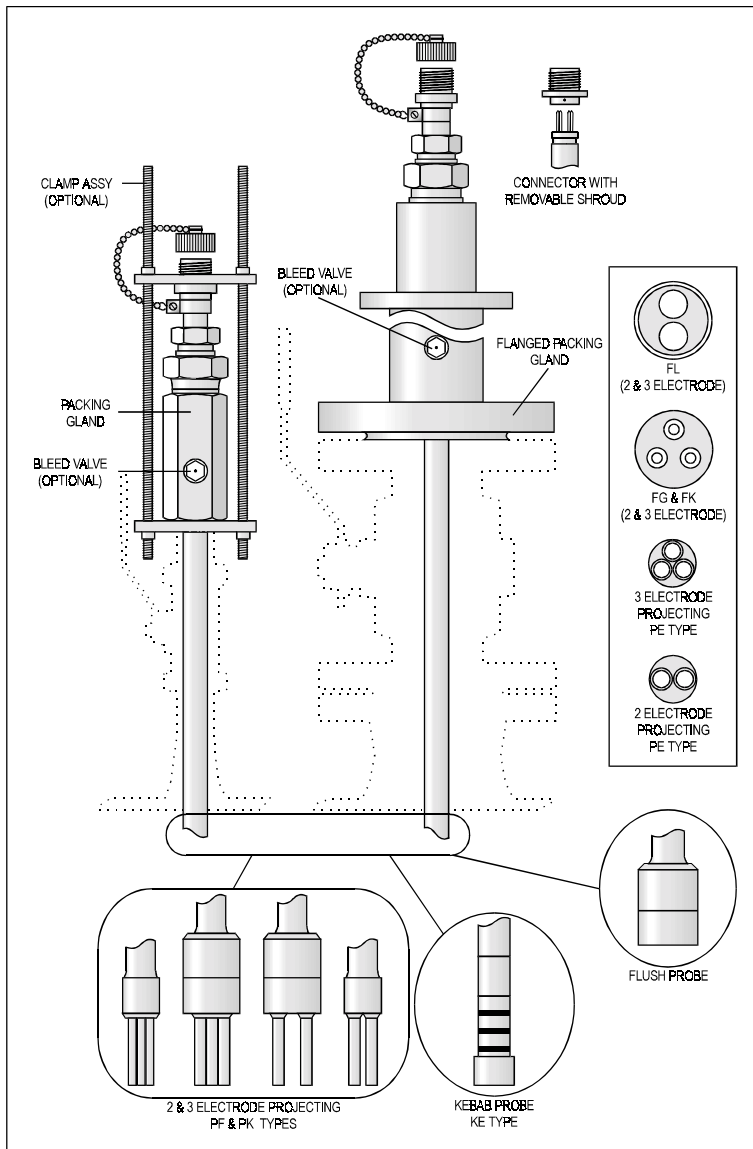
RC SERIES RETRACTABLE

FLUSH & PROJECTING STYLES

cormon

CMEP020.1

A comprehensive range of LPR probes for corrosivity measurements in processes up to 1500 psi, and 260°C.



Probes bodies are made from 316ss (1/8" - 3.2 mm wall) and 6 pin plated connectors. Probes with sensor heads over 16 mm diameter have a removable connector flange.

For a full range of packings and accessories see data sheet CMEF.011. The use of a safety clamp assembly is recommended.

Retractable LPR probes are for use in processes with conductive solutions, especially water, where on-line access and maintenance is required. In addition to LPR measurements, these probes are suitable for a range of other electrochemical techniques.

To obtain indications of oxygen concentration in water, dissimilar metal projecting electrodes may be used and galvanic (ZRA) measurements made.

Use with Cormon DCU LPR instrumentation.

A wide range of material and packing gland options is available for this product. Please contact Cormon sales for information, advice and design support.

Product specifications may change without notice

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PRODUCT CODE GUIDE

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P P R												
LPR PROBE	RETRACTABLE PACKING OPTION		LENGTH		ELECTRODE TYPE		ELECTRODE SIZE		ELEMENT MATERIAL			
<i>To create a product code, select required option under each heading and write into boxes at top of chart</i>	RC	Probe insert only	12	12" nom. insertion	FL	Flush epoxy seal 32 mm	S2	2 standard electrodes	A06 - Carbon steel 000 - projecting type without electrodes <i>CMEP020.2</i>			
	RA	Probe + standard packing	18	18" nom. insertion	FK	Flush mechanical seal 32 mm	S3	3 standard electrodes				
	RP	Probe + standard packing & clamp	24	24" nom. insertion	FG	Flush glass seal 32 mm						
			30	30" nom. insertion	PF	Projecting glass sealed studs 32 mm	S2	2 standard electrodes				
			36	36" nom insertion (see table for actual dimensions)	PE	Projecting glass sealed studs 16 mm	S3	3 standard electrodes (M3)				
					PK	Projecting mechanical seal studs 32 mm	R2	2 reduced area electrodes				
For Packing Gland options not shown above, order probe insert only and specify packing from data sheet CMEF.011. Options include Gas Tight, High Pressure, Bleed Valve, Sample Valve and Flanged Glands Glass & seals are suitable for service up to 260°C (500°F) and 1500 psi. Please consult Cormon for advice on use of mechanical seal & kebab probes - seal materials may be application specific.					KE	Kebab style	S2	2 standard electrodes				
							S3	3 standard electrodes				

PROBE LENGTH DATA

Dimension	Flush type				Projecting PE type				Projecting PF & PK type			
Nominal Length (order code)	18	24	30	36	18	24	30	36	18	24	30	36
Length overall (mm)	680	830	980	1130	677	827	977	1127	701	851	1001	1151

↑
example

NOTE: projecting electrode probe lengths include 38 mm of removable electrode. If reduced area electrodes are used these dimensions are 7 mm less. All electrode sets include an O ring seal.

Length calculation method. The minimum length of a probe is the sum of the height of the packing assembly (P) and the travel distance to retract the probe so that the valve may be closed (T). T is equal to the sum of the length of insertion into the pipe (I), the wall thickness of the pipe (W) and the height of the branch assembly (H). The value of P is 170 mm for NPT packing glands and 280 mm for flanged packing glands. When the minimum length in millimeters overall is known, the next highest overall length may be found from the table for the insert type to be used, and its nominal length equivalent entered as the length component of the order code. Values I, W & H are site specific variables. For example: if I = 150, W = 15 and H = 250 then T = 415. For an NPT packing P = 170 therefore P+T= 585. If a Flush probe is in use then the next highest table value is 680, and the nominal length vertically above 670 is **18**. The sum of values H + T + P gives the minimum clearance above the pipe wall to retract the probe fully. In practice an additional clearance of 100 mm provides working space. Retractor tools may require additional clearance.

ELECTRODE SETS - PRODUCT CODES			
GMA	L	S2 - 2 electrode standard	A06 Carbon Steel
		S3 - 3 electrode standard	
		R2 - 2 electrode reduced area	
		R3 - 3 electrode reduced area	
G		S2 - standard galvanic pair	AA - C.Steel & Brass