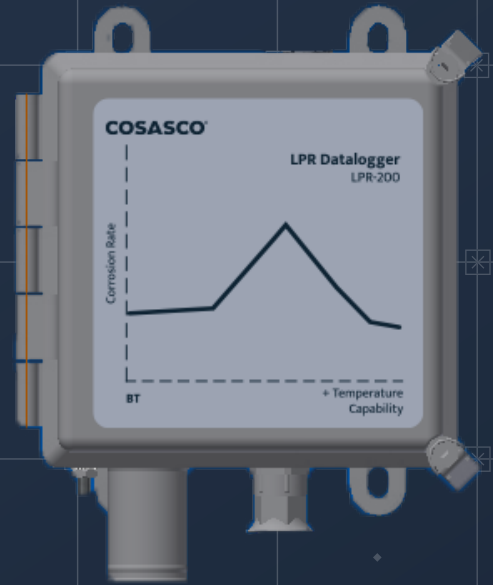


LPR DATALOGGER

LPR-200

The LPR-200 Linear Polarization Resistance Datalogger is used to measure corrosion rate, pitting tendency, and temperature in water and wastewater systems. It is ideal for remote locations where direct online operation is not possible. With built-in wireless technology, stored data may be downloaded from the LPR-200 from up to 32 ft. (10 m) with clear line of sight with a handheld Transfer Unit (TU-500). Without any wires, connectors, or adapters, configuration and download of readings is quicker and easier than ever.

Readings from the TU-500 are easily transferred to a PC running Cosasco Data Offline Corrosion Management Software. Cosasco Data Offline provides graphical displays of corrosion data for immediate identification of corrosion upsets. With Cosasco Data Offline Software multiple probes and additional corrosion related parameters, such as temperature from LPR Temperature probes, can be simultaneously reviewed.



Comprehensive Measurements in Water Applications

- Instantaneous corrosion rate readings
- Pitting tendency from an electrochemical noise sample
- Temperature Measurement

Solution Resistance Compensation

- Cosasco Patented advanced electrochemical measurement technology
- Extended operating range beyond traditional two and three electrode LPR methods

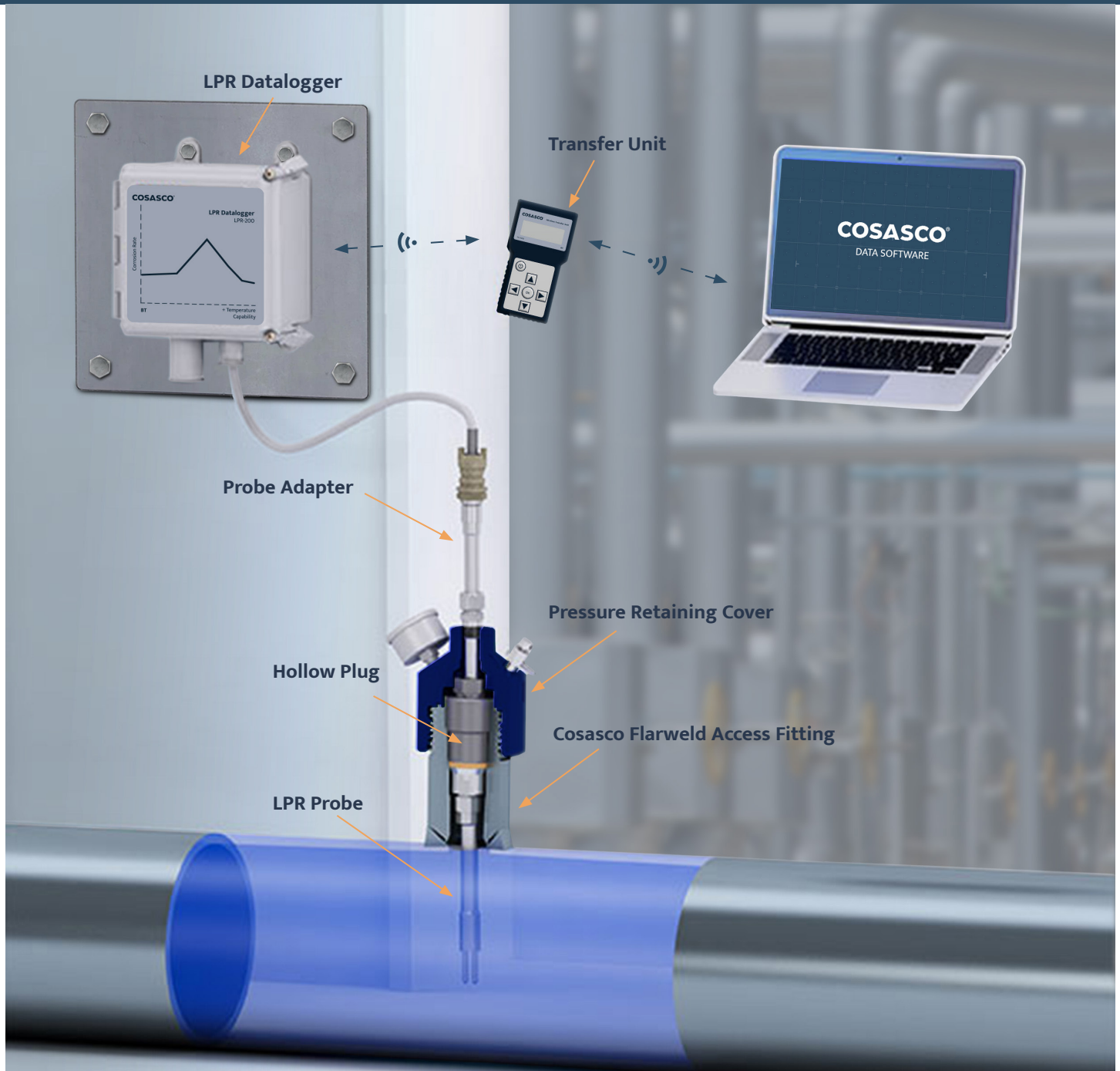
Wireless Communication

- Easy data transfer via wireless
- Wireless range up to 32 ft (10m)
- No more cables required

Hazardous Area Location Certified

- Intrinsically safe (IECEx/ATEX/ CSA_{US})
- Certified for use in Class I, Zone 0
- NEMA 4X IP66 Rated Enclosure

Typical System-High Pressure



**LPR Corrosion Monitoring Point:
High Pressure (up to 6000 psi)**

The above diagram shows the equipment required for a typical high pressure corrosion monitoring point using Linear Polarization Resistance measurement technology. A typical LPR Datalogging system consists of an LPR probe and probe adapter connected to a hollow plug and inserted into a Cosasco Access Fitting that has been welded onto the pipeline. The LPR probe

can be installed and retrieved under full operating pressure using a Cosasco Retriever and Service Valve. The TU-500 Transfer Unit communicates wirelessly with the LPR-200 to download recorded Corrosion Rate readings. Collected readings on the TU-500 can be downloaded wirelessly to a PC running Cosasco Data off-line Software for graphing and analysis.

LPR-200 Specifications

Operating Temperature	-40°F to +158°F (-40°C to + 70°C)
Data Storage	LPR Probe Measurements: Most recent 1024 measurements LPR Temperature Probe Measurements: Most recent 512 measurements
Typical Battery Life	Typical: 1 year at 1 reading every 4 hours
Probe Channel Cables	Ten foot probe cable included (contact factory if alternate is necessary) 250 ft maximum
Weight	5 lbs (2.3 kg)
BT	<ul style="list-style-type: none"> Roaming Details: Range: 32 ft. (10m), typical Applications: FCC/IC/CE Antenna: Integrated 2 dBi typical, 4 dBi maximum
Enclosure	Fiberglass Polyester NEMA 4X, IP 66 or stainless steel NEMA 4X, IP66. Stainless steel enclosure has female type connector for customer supplied < 8 dBi antenna*
Compatibility	All Cosasco LPR Probes

* Stainless steel enclosure also available (NEMA 4X, IP 66), with RF connector connecting to customer supplied antenna for better BT connection.

— Hazardous Area Certifications

European Certification

Sira: 16 ATEX 2024X
Class I, Zone 0, Ex ia IIC T4 Ga Ta= -40°C to +70°C
For use only with battery pack P/N 726043

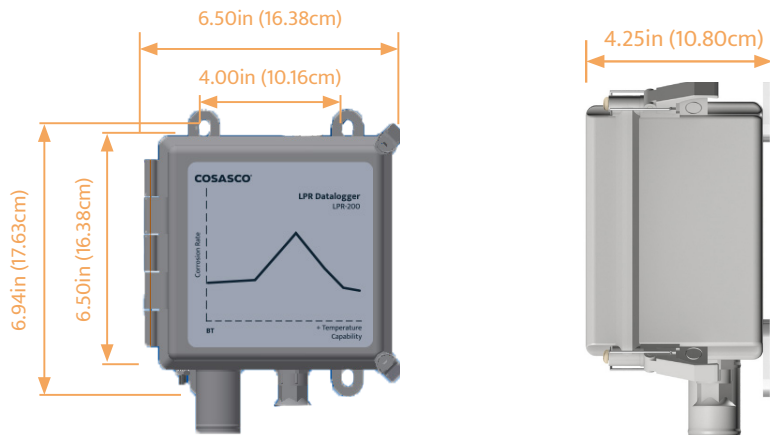
North American Certifications

CSA Canada: Ex ia IIC T4 Ga, Class I, Zone 0, Ta= -40°C to +70°C for use only with battery pack P/N 726043
CSA USA: AEx ia IIC T4 Ga, Class I, Zone 0, Ta= -40°C to +70°C

IEC Ex Certification

Sira: IECEX SIR 16.0009X
Class I, Zone 0, Ex ia IIC T4 Ga, Ta= -40°C to +70°C
For use only with battery pack P/N 726043

LPR-200 Dimensions



TU-500 Specifications

Compatibility	<ul style="list-style-type: none"> All ER and LPR Dataloggers Microcor® ER Datalogger ER and LPR Probe Readers 	<ul style="list-style-type: none"> All Legacy ER and LPR Remote Data Collectors and Microcor® ER Dataloggers <p><small>*Excludes RDC 4 Channel LPR Probe Readers</small></p>
Memory	Microcor® ID's 1-99 and all other ID's 1-255	
Power Source	2 AA Lithium Batteries: P/N 095820, alternate P/N 095818 (do not mix)	
Battery Life	400,000 data points on BT Series instruments	
Display	Four Line Liquid Crystal Display (LCD)	
Temperature Range	Operating: -40°F to 158°F (-40°C to 70°C)	Storage: -40°F to 158°F (-40°C to 70°C)
Enclosure	IP20 rated enclosure with sealed membrane keypad	
Dimensions	6.24”H x 3.35”W x .91”D (15.8 x 8.51 x 2.31 cm)	
Wireless Communication	Range: 32 ft. (10m), line of site Approvals: FCC/IC/CE	Antenna: Integrated 2 dBi typical, 4 dBi max.

— Certifications

IECEX Certification

SIRA: IECEX SIR 14.0096X
Ex ia IIC T4 Ga, Ta= -40°C to +70°C

European Certification

SIRA: 14 ATEX 2263X
Ex ia IIC T4 Ga, Ta= -40°C to +70°C

North American Certifications

CSA Certification: 70007061
CSA Canada: Ex ia IIC T4 Ga, Ta= -40°C to +70°C
CSA USA: Class I, Zone 0, AEx ia IIC T4 Ga, Ta= -40°C to +70°C

TU-500 Dimensions



Ordering Information LPR-200

Model	Description				
LPR-200	Linear Polarization Resistance Datalogger (Includes Batteries and User Manual)*				
	Code	Enclosed Material			
	0	Standard Fiberglass Enclosure			
	1	Stainless Steel Enclosure (Must select Antenna Option Below)			
		Code	Antenna Option		
		0	No External Antenna (Recommended for Standard Fiberglass Enclosure, not recommended for Stainless Steel Enclosure)		
		1	Standard Antenna		
		2	Antenna = 20 Foot Cable + Lightning Arrester		
		Code	Cable Length in Feet (omit for standard 10 foot cable)		
		A	Type A Connector		
		B	Type B Connector		
		S	Type S Connector		
		Code	Cable Length in Feet		
		L	**Length in Feet (Standard 10 Feet)		
LPR-200	1	0	A	10	Example

* Installation Kit ER/LPR-200 is not included

** Maximum cable length is 250 ft.

Transfer Unit

Model	Description
TU-500-1	Transfer Unit, Batteries, and User Manual

Accessories and Replacement Parts

Part Number	Description
095820	AA Lithium Battery
028068	Fixed Probe Adapter (only for High Pressure 6080 Probes)
710335	LPR Test Probe
402207	Mounting Bracket Assembly for Pipe
726080-DL-BT	Installation Kit ER-200 / LPR-200 BT (Includes test probe and Cosasco Offline Software)

Cosasco

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LPR-200-DS rev-8
Rev. Date 04/2026

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Rohrback Cosasco Systems Corrosion Monitoring Equipment is manufactured and sold under one or more of the following US Patents: 4138878, 4238298, 4338563, 4514681, 4537071, 4587479, 4605626, 4625557, 4755744, 4839580, 4841787, 4882537 5243297.



Certificate No. BSI 10694



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