

ER Datalogger

ER-210

The ER-210 Electrical Resistance Datalogger is ideal for any monitoring location where online communications are not feasible. The instrument can be configured to take readings as frequently as every five minutes.

Programming and data retrieval from multiple ER-210 dataloggers is accomplished using a single Checkmate™ DL for direct transfer to a portable or desktop P.C. running Cosasco Data Offline Software.

Cosasco Data Offline Software provides graphical displays of corrosion data for immediate identification of corrosion upsets. With Cosasco Data Offline Software, multiple probes and additional corrosion related parameters can be simultaneously reviewed.



ER-210 Connected to a High Pressure ER Probe

Electrical Resistance Metal Loss Measurements in Process Media

Reads all standard ER probes

Rapid Measurement Cycle

Hazardous Area Location Certified

Intrinsically safe (IECEx/ATEX/CSA_{US})

Certified for use in Class 1, Zone 0

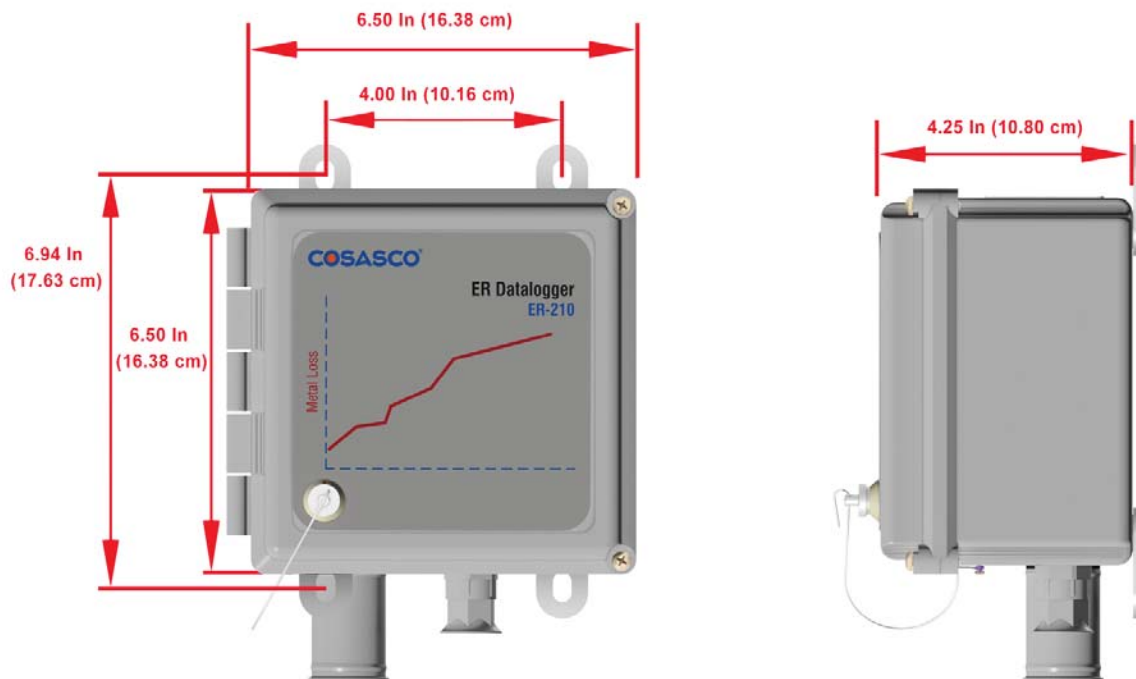
NEMA 4X IP66 rated enclosure

ER-210

ER-210 Specifications

Operating Temperature	-40°F to +158°F (-40°C to +70°C)
Data Storage	Most recent 1024 measurements for standard ER probes (512 for legacy ER temperature probes)
Typical Battery Life	Typical: 3 years at 1 measurement every 4 hours
Probe Channel Cables	10 foot probe cable included, 250 ft maximum optional
Weight	5 lbs (2.3 kg)
Enclosure	Fiberglass Polyester NEMA 4X **
Compatibility	All Cosasco ER Probes
Hazardous Area Certifications	
<u>Atex Certification</u> 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	<u>North American Certifications</u> CSA Certification: 70008419 CSA _{US} Aex ia IIC T4 Ga, Class I, Zone 0, Ta = -40°C to +70°C CSA Ex ia IIC T4 Ga, Class I, Zone 0, Ta = -40°C to +70°C Use only replaceable battery pack Cosasco P/N 726043
<u>IEC Ex Certification</u> IECEX SIR 16 Class I, Zone 0, Ex ia IIC T4 Ga, Ta = -40°C to +70°C For use only with battery pack P/N 726043	

Dimensions



Data Transfer Unit (Checkmate DL) Specifications

Compatibility	Reads all ER and LPR Datalogger Units and all Microcor Data Loggers
Memory	For up to 50 ER-210s
Transfer Data	Intrinsically Safe RS 232 at 9600 Baud Rate
Power Source	6 AA Batteries
Battery Life	Typically 10 hours of continuous operation
Display	Four Line Liquid Crystal Display (LCD)
Temperature Range	Operating: 0°F to 122°F (-18°C to 50°C) Storage: 0°F to 150°F (-18°C to 65°C)
Enclosure	Splash-proof enclosure with sealed membrane keyboard
Dimensions	7.75"H x 4.30"W x 2"D (196.8 mm x 109.2 mm x 50.8 mm)
Weight	Without carrying case: 1.5 lbs. (0.68 kg) With carrying case: 5 lbs. (2.3 kg)

Hazardous Area Certifications	
USA/Canada	UL AEx ib IIC T4 Tamb = -20°C to +50°C ULc Ex ib IIC T4 Tamb = -20°C to +50°C
Europe	CE compliant (EMC, ATEX) ATEX EEx ib IIC T4 Tamb = -20°C to +50°C

Dimensions



ER-210

Ordering Information: ER-210

Model	Description	
ER-210	Electrical Resistance Datalogger (Includes batteries and user manual)*	
	Code	Enclosure Material
	0	Standard Fiberglass Enclosure**
	Code	Probe Connector Type
	A	Type A Connector
B	Type B Connector	
S	Type S Connector	
Code	Cable Length in Feet (omit for standard 10 foot cable)	
L	***Length in Feet	

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*Mounting bracket assembly for pipe for ER-210 not included.

**For stainless steel enclosure option, consult factory.

***Maximum cable length is 250 ft.

Ordering Information: Checkmate DL

Model	Description	
Checkmate-DL	Portable Corrdata Data Logging Instrument with Carrying Case	
	Code	Certification
	1	Intrinsically Safe

Checkmate-DL	—	1	←	Example
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Accessories: Field carrying case, Leather - P/N 723631

Accessories and Replacement Parts

Part Number	Description
028068	Fixed Probe Adapter (only for High Pressure Series 4000 Probes)
700689	ER Test Probe
402207	Mounting Bracket Assembly for 2" Pipe
726043	ER-210 Lithium Battery Pack

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ER-210-DS revA
 Rev. Date 2/12/2017