Electrical Resistance Remote Data Collector (RDC-COT) are used at every probe location where maximum visibility and sensitivity to corrosion rate changes are required. Readings of corrosion data may be set as frequently as every five minutes for the RDC-COT.

Programming and data retrieval from the RDC-COT is accomplished by a single Checkmate™ DL for direct transfer to a portable or desktop P.C. running Cosasco Data Offline Software. For non-intrinsically safe applications the RDC-COT may be configured directly from the PC.

For increased versatility, battery or line power may be used.

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.





RDC-COT Connected to a High Pressure ER Probe

## Electrical Resistance Metal Loss Measurements in any Process Media

Remote Corrosion Data Collection

Integrates Multiple Parameters

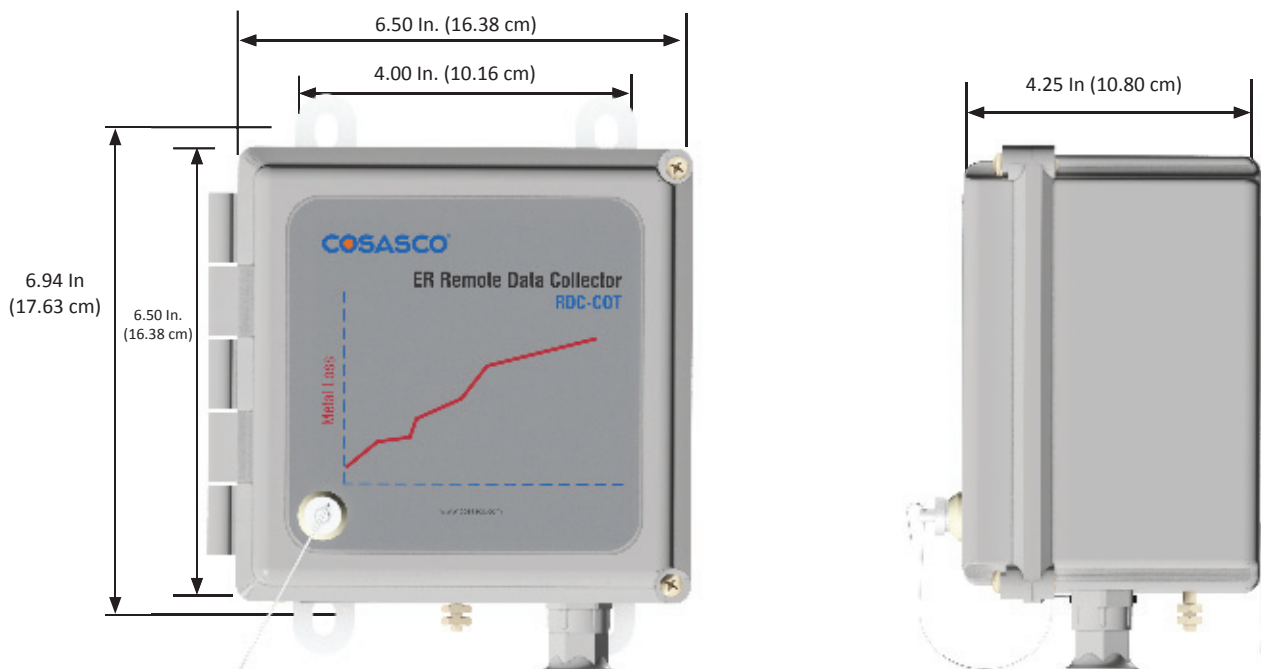Simple Operation with Graphical Displays

## Hazardous Area Location Certified

Intrinsically safe ( IECEx/ATEX/$_c$CSA$_{US}$)

CE Compliant

ATEX Compliant

## COSASCO

## ER RDC Specifications

| Operating Temperature | -40$^o$F to +158$^o$F (-40$^o$C to +70$^o$C) |
|---|---|
| Data Storage | Most recent 1024 measurements |
| Typical Battery Life | 14 Ah Battery<br>91 days @ 1 reading/hr. |
| Probe Channel Cables | Ten foot probe cable included (contact factory if alternate length is Necessary), 250 ft maximum |
| Weight | 5 lbs (2.3 kg) |
| Enclosure | Fiberglass Polyester NEMA 4X |
| Compatibility | All Cosasco ER Probes |
| Hazardous Area Certifications | | |
| | USA/Canada | UL/ULc Class 1, Zone 1, Ex and AEx ib IIC T4* (Class 1, Div. 2, A, B, C, D, T4) with Battery Pack for USA and Canada<br>UL/ULc Class 1, Zone 1, Ex and AEx ib IIB T4* (Class 1, Div. 2, A, B, C, D, T4) with Remote Power for USA and Canada |
| | Europe | DEMKO/ATEX EEx ib IIC T4* with Battery Pack for Europe<br>DEMKO/ATEX EEx ib IIB T4* with Remote Power<br>*T4 at 50°C Ambient, and *T3 at 70°C Ambient |

## Dimensions

## Data Transfer Unit (Checkmate DL) Specifications

| | |
|---|---|
| **Compatibility** | Reads all ER and LPR RDC Units and all Microcor Data Loggers |
| **Memory** | For up to 50 RDCs when programmed with for Corrdata® Systems. 57,330 Microcor® Data Logger readings when programmed for Microcor® Systems. |
| **Transfer Data** | Intrinsically Safe RS 232 at 9600 Baud Rate |
| **Power Source** | 6 AA Lithium 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)<br>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<br>(196.8 mm x 109.2 mm x 50.8 mm) |
| **Weight** | Without carrying case: 1.5 lbs. (0.68 kg)<br>With carrying case: 5 lbs. (2.3 kg) |
| **Hazardous Area Certifications** | |
| USA/Canada | UL AEx ib IIC T4 Tamb = -20°C to +50°C<br>ULc  Ex ib IIC T4 Tamb = -20°C to +50°C |
| Europe | CE compliant (EMC, ATEX)<br>ATEX EEx ib IIC T4 Tamb = -20°C to +50°C |

## Dimensions

## Ordering Information:
### ER Remote Data Collector

| Model | Description | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| **RDC** | Single Channel ER RDC | | | | | | | |
| | **Code** | **Probe Type** | | | | | | |
| | **COT** | ER Probe | | | | | | |
| | | **Code** | **Connector Type** | | | | | |
| | | **A** | Type A Connector | | | | | |
| | | **B** | Type B Connector | | | | | |
| | | **S** | Type S Connector (Model 3700 only) | | | | | |
| | | | **Code** | **Power (Options)** | | | | |
| | | | **0** | Power Connector | | | | |
| | | | **3** | Heavy Duty 14 Ah Battery Pack (P/N 748270) | | | | |
| | | | | **Code** | **Hazardous Area Certifications** | | | |
| | | | | **3** | See Specifications Above | | | |
| | | | | | **Code** | **Cable Length in Feet** | | |
| | | | | | **L** | *Length in feet (Standare 10 feet) | | |
| **RDC** — | **COT** — | **B** — | **0** — | **3** | ← | | | **Example** |

*Maximum cable length 100ft.

## Ordering Information:
### Checkmate DL

| Model | Description | |
|---|---|---|
| **Checkmate-DL** | Portable Corrdata Data Logging Instrument with Carrying Case | |
| | **Code** | **Certification 2** |
| | **1** | Intrinsically Safe |
| **Checkmate DL** — | **1** | ← Example |

Accessories: Field carrying case, Leather - P/N 723631

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