



## Remote data collection made easy.

Microcor® Data Logger is a data collection system for applications where direct on-line operation is not possible. The system is ideal for remote locations, low corrosion rate systems, and rapid deployment for analysis.

### Microcor® Data Logger Benefits:

- Rapid deployment for corrosion and erosion analysis
- Long lasting battery for reliable operation
- Certified to operate in all process environments, including sour gas

**Microcor Data logger**

Microcor Data logger  
(Aluminum Housing)

MWT-3905-MDL-0

Microcor Data logger  
(Stainless Steel Housing)

MWT-3905-MDL-1

**Data Transfer to the PC**

For non-hazardous areas, a portable PC can configure and retrieve data from the data logger with the following cable.

Data logger to PC serial cable  
P/N 748110-9A



For hazardous areas, an intrinsically safe Checkmate DL is required for configuration and data transfer. The Checkmate DL collects data from all of the data loggers in the field, and is then carried to the safe area for data transfer to a PC running COSASCO® Software.



**Data logger Mounted in Remote Location**

## System Specifications

**Probe Compatibility**

All Microcor Probes

**Accuracy**

Less than 0.001 mil (dependent on probe)

**Real World Speed of Response**

1 mpy = 8 hrs 20 mins  
2 mpy = 4 hrs 10 mins  
5 mpy = 1 hr 40 mins  
7 mpy = 1 hr 12 mins  
10 mpy = 50 mins

**Operating Temperature Range**

**Data logger** -40°C to +70°C (-40°F to +158°F)  
**Checkmate DL** -18°C to +50°C (0°F to +122°F)

**Enclosure**

IP 66

**Data Storage**

8,000 Readings

**Battery Life**

5 years at 20 Min Measurement Interval

**Power Supply**

7.2 V Lithium Power Module

**Dimensions**

4.5" dia. by 6.9" high incl. connectors

**Weight**

6.45 lbs (2.9 Kg)

## Hazardous Area Certifications

### Data logger

#### ATEX certification

Sira 19ATEX1044X

Ex db ib [ib Gb] IIC T4 Gb,  $-40^{\circ}\text{C} \leq \text{Tamb} \leq +70^{\circ}\text{C}$

Enclosure: NEMA 4, IP 66

For use only with Power Module P/N 748400

#### North American Certifications

CSA Certification: CSA 19 CA 70197955X

CSAUS AEx db ib [ib Gb] Class 1, Zone 1, IIC T4 Gb,  $-40^{\circ}\text{C} \leq \text{Tamb} \leq +70^{\circ}\text{C}$

CCSA Ex db ib [ib Gb] Class 1, Zone 1, IIC T4 Gb,  $-40^{\circ}\text{C} \leq \text{Tamb} \leq +70^{\circ}\text{C}$

Enclosure: NEMA 4, IP66

For use only with Power Module P/N 748400

#### IECEx Certification

IECEx SIR 19.0018X

Ex db ib [ib Gb] IIC T4 Gb,  $-40^{\circ}\text{C} \leq \text{Tamb} \leq +70^{\circ}\text{C}$

Enclosure: NEMA 4, IP 66

For use only with Power Module P/N 748400

### Model CHECKMATE-DL-1: Class 1, Zone 1

#### ATEX certification

07 ATEX 0707396X

II 2G Ex ib IIC T4 Gb –  $20^{\circ}\text{C} \leq \text{Tamb} \leq +50^{\circ}\text{C}$

Enclosure: IP 20

#### IECEx Certification

IECEx UL 18.0129X

Ex ib IIC T4 Gb –  $20^{\circ}\text{C} \leq \text{Tamb} \leq +50^{\circ}\text{C}$

Enclosure: IP 20

#### North American Certifications

UL/cUL

Ex ib IIC T4 Gb –  $20^{\circ}\text{C} \leq \text{Tamb} \leq +50^{\circ}\text{C}$

AEx ib IIC T4 Gb –  $20^{\circ}\text{C} \leq \text{Tamb} \leq +50^{\circ}\text{C}$

Enclosure: IP20

## Dimensions



## Ordering Information

Microcor® Data logging System		
<b>Microcor &amp; Erosion Probes</b>	See Bulletin #150 & 700	
<b>Probe Connecting Adapter</b>	Model 2000 & 3000 Series Probes	P/N 745092
	Model 4000 Series Probes	P/N 745093 & 745093H
	Models 4000 Series Probes 10,000PSI	P/N 745114 & 745114H
<b>Data logger to probe-cable with Data logger-mounting bracket (Note: probe adapter required in conjunction with cable)</b>	Model M2000, M3000, M4000 Series Probes, 10ft (3m)	P/N 748497-10
	Model M2000, M3000, M4000 Series Probes, 15ft (4.6m)	P/N 748497-15
<b>Microcor Data logger</b>	Model MWT-3905-MDL w/Aluminum Housing	MWT-3905-MDL-0
	Model MWT-3905-MDL w/ Stainless Steel Housing	MWT-3905-MDL-1

Data Transfer to PC	
<b>RDC/Wireless to PC Cable</b>	P/N 748110-9A
<b>Cosasco Data</b>	MS 9000A
<b>Checkmate DL</b>	P/N Checkmate-DL-1

Accessories	
<b>7.2 V Lithium Power Module</b>	P/N 748400
<b>Installation Kit</b>	P/N 702198
<b>Test Probe (included in Installation Kit)</b>	P/N 748589
<b>Mounting Bracket for Data logger (Included w/Data logger to probe cable P/N 748497 above)</b>	P/N 702465
<b>Overshot Adaptor - Model 4000 Series Probes - Protection for Connector During Installation</b>	P/N 126292