CORRDATA® Remote Data Collection System

**Features:**

- **Maximum Versatility**
- **Automatic Corrosion Data Collection**
- **Multiple Power and Communication Options**
- **Intrinsically Safe**
- **Simple Operation With Graphical Displays**
- **Integrates Multiple Parameters**
- **Wide Environmental Operating Range**
- **CE Compliant**
- **ATEX Compliant**

Remote Data Collectors (RDC's) are used at every probe location where maximum visibility and sensitivity to corrosion rate changes are required. Readings of corrosion and temperature data may be set as frequently as every five minutes for RDC-COT or every thirty minutes for RDC-CAT.

Programming of all the RDC's, and data retrieval from the RDC's is accomplished by a single Checkmate™ DL or Mate II for direct transfer to a portable or desktop P.C. running CORRDATA® Plus Software. For non-intrinsically safe applications the RDC may be configured directly from the PC.

For probe locations where less frequent monitoring is required, the CORRDATA® Mate II is capable of monitoring probes directly without an RDC, as well as transferring accumulated probe data from RDC's.

For increased versatility, Communication Power Modules (CPM's) provide a wide range of power supply and remote communication options. Battery, solar or line power may be used. Communication over cellular or telephone links allows data retrieval without ever leaving the office.

CORRDATA® Plus Software provides graphical displays of corrosion data for immediate identification of corrosion upsets. With CORRDATA® Plus Windows based Software for Windows XP Pro/Vista Business/Vista Ultimate multiple probes and additional corrosion related parameters, such as temperature from CORROTEMP® probes, can be simultaneously reviewed.
Remote Data Collectors

Specifications:

- **NEMA 4X Enclosure**
- **Operating Temperature:**
  - -40°F to +158°F (-40°C to +70°C)
- **Data Storage:**
  - CORROSOMETER®, Most recent 2048 measurements
  - CORROTEMP® CO: Most recent 1024 measurements
  - CORRATER®, Most recent 1024 measurements
  - CORROTEMP® CA: Most recent 512 measurements
- **Typical Battery Life:** (14 Ah Battery)
  - CORROSOMETER®/CORROTEMP®: 177 days @ 1 measurement/hr.
  - CORRATER: 91 days @ 1 reading/hr.
- **Probe Channel Cables:**
  - Ten foot probe cable included (contact factory if alternate length is necessary)
- **Weight:** 5 lbs. (2.3 kg)

**Hazardous Area Certifications RDC and RDC4**

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

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

DEMKO/ATEX EEx ib IIC T4* with Battery Pack for Europe

DEMKO/ATEX EEx ib IIB T4* with Remote Power

*T4 at 50°C Ambient, and *T3 at 70°C Ambient

Ordering Information: Remote Data Collectors

<table>
<thead>
<tr>
<th>MODEL</th>
<th>CORRDATA® DATA COLLECTION UNIT</th>
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<tbody>
<tr>
<td>RDC</td>
<td>SINGLE CHANNEL RDC</td>
</tr>
<tr>
<td>RDC4</td>
<td>4-CHANNEL RDC</td>
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<thead>
<tr>
<th>CODE</th>
<th>PROBE TYPE</th>
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<tbody>
<tr>
<td></td>
<td>CORROTEMP® CO or CORROSOMETER® PROBE</td>
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<tr>
<td></td>
<td>CORROTEMP® CA or CORRATER® PROBE (SINGLE CHANNEL RDC ONLY)</td>
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<thead>
<tr>
<th>CODE</th>
<th>CONNECTOR TYPE</th>
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<tbody>
<tr>
<td>A</td>
<td>TYPE A CONNECTOR (SINGLE CHANNEL RDC ONLY)</td>
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<tr>
<td>B</td>
<td>TYPE B CONNECTOR (SINGLE CHANNEL RDC ONLY)</td>
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<thead>
<tr>
<th>CODE</th>
<th>POWER COMMUNICATION OPTIONS</th>
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<tr>
<td>0</td>
<td>POWER/COMMUNICATION CONNECTOR</td>
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<tr>
<td>3</td>
<td>HEAVY DUTY 14 Ah BATTERY PACK (P/N 748270)</td>
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<tr>
<th>CODE</th>
<th>HAZARDOUS AREA CERTIFICATIONS</th>
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<tr>
<td>3</td>
<td>SEE SPECIFICATIONS ABOVE</td>
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</table>

RDC4 CABLE ORDERING INFORMATION:

FOR TYPE A PROBE CONNECTOR: 702019-A-LL
FOR MODEL 600 PROBE: 700621-1-LL
FOR TYPE B PROBE CONNECTOR: 702019-B-LL
FOR MODEL 610 PROBE: 700621-3-LL

Note: LL = Order length in feet (max. 100 ft. each)

For dual use, on Type A or Type B connectors, order 700612-A-LL and adaptor P/N 028030 Extension cables should not generally be used on RDC’s

Specifications subject to change without notice
Checkmate™ DL

Specifications:

- **Compatibility**: Reads all CORROSOMETER® and CORRATER® 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.
- **Data Transfer**: Intrinsically Safe RS 232 at 9600 Baud Rate.
- **Power Source**: 6 AA Alkaline 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 70°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)
- **Weight with carrying case**: 5 lbs (2.3 kg).
- **Hazardous Area Certification**:
  - Model CHECKMATE-DL-0-Y: Class 1, Zone 2
    - North America: UL AEx nL IIC T4 Tamb = -20°C to +50°C
    - ULc Ex nL IIC T4 Tamb = -20°C to +50°C
  - Europe:
    - CE compliant (EMC, ATEX)
    - ATEX EEx nL IIC T4 Tamb = -20°C to +50°C
  - Model CHECKMATE-DL-1-Y: Class 1, Zone 1
    - North America: 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

### Ordering Information: Checkmate DL

<table>
<thead>
<tr>
<th>Model</th>
<th>Description</th>
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<tr>
<td>CHECKMATE-DL</td>
<td>Portable CORRDATA® Data Logging Instrument With Carrying Case</td>
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<tr>
<td>Code</td>
<td>Certification (Z)</td>
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<tr>
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<td>CORRDATA® (CORROSOMETER® &amp; CORRATER® RDCs)</td>
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<tr>
<td>1</td>
<td>MICROCOR® Data Loggers</td>
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Example

Accessories: Field carrying case, Leather – P/N 723631
Specifications:

- **Compatibility:**
  Reads all RDC’s, CORROSMETER, CORROTEMP CORROSMETER, AND CORRATER Probes

- **Power Source:** 6 AA alkaline cells

- **Battery Life:** Typically 10 hours of continuous operation

- **Display:** Four Line Liquid Crystal Display (LCD)

- **Temperature Range:**
  - Operating: 0ºF to +122ºF (-18ºC to +50ºC)
  - Storage: 0ºF to +150ºF (-18ºC to +70ºC)

- **Hazardous Area Certifications:**
  UL/ULc (CLASS 1, GROUPS A, B, C, D, TEMP T3C) for USA & Canada

- **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. (.68 kg)
  - with carrying case: 5.5 lbs. (2.5 kg)

- **Carrying case and all necessary leads included**

**Ordering Information: Mate II**

<table>
<thead>
<tr>
<th>MODEL</th>
<th>HAND HELD MONITORING UNIT</th>
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<tbody>
<tr>
<td>CDM2</td>
<td>RDC AND PROBE MOUNTING UNIT</td>
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<thead>
<tr>
<th>CODE</th>
<th>ASSOCIATED PC SOFTWARE PACKAGE</th>
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<tbody>
<tr>
<td>2</td>
<td>WITH CORRDATA PLUS WINDOWS PC SOFTWARE PACKAGE</td>
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<th>HAZARDOUS AREA CERTIFICATIONS</th>
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Typical CDM2 Order Number: 21