

**MOBILTEX**

## CorTalk® uDL1

DATA LOGGER WITH GPS RECEIVER

## CorTalk® uDL2

DATA LOGGER FOR CP COUPONS WITH GPS RECEIVER

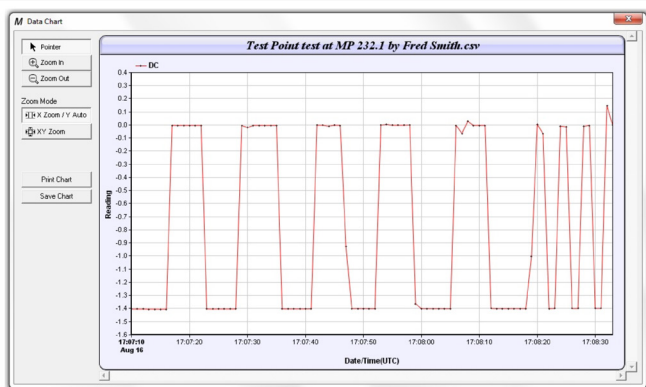


### DATA LOGGERS THAT DELIVER

Periodic field surveys of cathodic protection systems can't identify frequent, short-term events that can seriously impact pipeline integrity. Mobiltex data loggers can.

These pocket-sized, highly accurate devices are designed to be installed in minutes inside rectifiers and test stations to measure and record critical performance parameters from the CP system.

Each device offers a wide range of configurable settings that includes sample rate, current measurement ranges, time, geo-location and more. A tough enclosure, combined with durable components provides reliable operation in the harshest of operating conditions, while a long-lasting rechargeable battery ensures months of operation.



Data preview graph of information collected by the uDL1 and uDL2 data loggers.

### ADVANTAGES OF CORTALK DATA LOGGERS

- **OUT OF SIGHT DESIGN** — Compact units fit inside most standard CP test stations.
- **MAXIMUM BATTERY LIFE** — Internal rechargeable batteries provide up to six months of continuous operation.
- **INSTANTLY VIEW CURRENT DATA** — LCD display for local measurement monitoring.
- **EASY TO USE** — Fast, simple configuration, data retrieval and charging via USB.
- **ENGINEERED TO WITHSTAND THE TOUGHEST CONDITIONS** — Lightning and surge protection, broad operating temperature range (-4°F to +140°F (-20°C to +60°C).
- **GPS ACCURACY** — Internal GPS receiver provides an accurate time reference and site geo-location coordinates).

**INDUSTRY-LEADING SOLUTION THAT'S INTELLIGENTLY ENGINEERED FOR BOTH RECTIFIERS AND TEST POINTS**

## UDL1: DATA LOGGER WITH GPS RECEIVER

It's one of the industry's smallest and toughest devices for collecting AC and DC measurements from cathodic protection systems. Designed to fit under standard CP test caps, this rechargeable device automatically begins operation when connected to a measurement cable and stores up to 2,000,000 readings.



## UDL2: DATA LOGGER FOR CP COUPONS WITH GPS RECEIVER

Tiny, yet highly capable, the corTalk uDL2 provides comprehensive data measurement and logging of coupon status in CP systems. The device provides reliable, accurate measurement of AC current density, coupon DC current, a range of potential measurements and more. A dual potential mode enables the uDL2 to take potential measurements from two structures simultaneously. The uDL2 is also equipped with a rechargeable battery that provides up to six months of service and up to 2,000,000 readings on a single charge.



## UDL1 SPECIFICATIONS

### ENVIRONMENTAL:

|                       |                                  |
|-----------------------|----------------------------------|
| Operating Temperature | -20° to +60° C (-4° to +140° F)  |
| Charging Temperature  | 0° to +40° C (32° to +104° F)    |
| Storage Temperature   | -40° to +70° C (-40° to +158° F) |
| Humidity              | 0 to 100% RH non-condensing      |
| Maximum Altitude      | 5000 meters above sea level      |
| Pollution Degree      | 1                                |

### PHYSICAL:

|           |                                           |
|-----------|-------------------------------------------|
| Size      | 89mm x 40mm x 18mm (3.5" x 1.6" x 0.72")  |
| Weight    | 75 grams (2.7 oz)                         |
| Enclosure | UV stable, wide temperature polycarbonate |

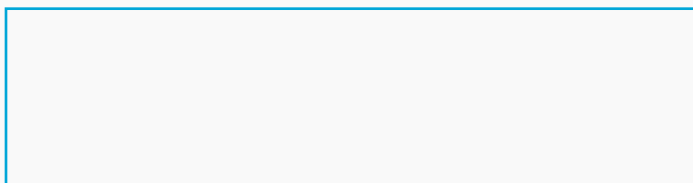
### DATA | POWER | COMMUNICATIONS:

|                             |                                                                                          |
|-----------------------------|------------------------------------------------------------------------------------------|
| Memory Size                 | Up to 2,000,000 readings (Advanced G2)                                                   |
| Battery                     | Internal Li-Ion (Not user replaceable)                                                   |
| GPS Receiver                | 50-channel u-blox                                                                        |
| Output File Data Resolution | 1uV for AC and DC readings<br>0.1° for temperature readings<br>0.00001° for GPS position |

### PERFORMANCE:

|                             |                                                                                                                                                                                                                                                |
|-----------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Measurement Type            | Category 2 (as per CSA C22.2 – 61010)                                                                                                                                                                                                          |
| Analog Range (DC & AC)      | +/- 150mVDC, 110mV true RMS AC, 150mVpeak<br>+/- 20VDC, 14V true RMS AC, 20Vpeak<br>+/-150VDC, 106V true RMS AC, 150Vpeak                                                                                                                      |
| AC Rejection on DC Readings | >65dB @ 50/60Hz                                                                                                                                                                                                                                |
| Input Impedance             | >20Mohm                                                                                                                                                                                                                                        |
| External Analog Channels    | 1 galvanically isolated with shared common                                                                                                                                                                                                     |
| Lightning Immunity          | Survives multiple 30KV surges                                                                                                                                                                                                                  |
| Temp. Measurement Accuracy  | +/-4° C (+/-7° F) over -20° to +60° C (-4° to +140° F)                                                                                                                                                                                         |
| DC Measurement Accuracy     | over -20° to +60° C (-4° to +140° F)<br>low range: +/-0.25% + 100uV<br>med range: +/-0.5% + 12mV<br>high range (-75V to +75V): +/-0.5% + 100mV<br>high range (<-75V and >+75V): +/-1% + 100mV                                                  |
| AC Measurement Accuracy     | over -20° to +60° C (-4° to +140° F)<br>low range: +/-0.3% + 80uV, 180uV floor<br>med range: +/-0.65% + 10mV, 22mV floor<br>high range (-75V to +75V): +/-0.65% + 80mV, 170mV floor<br>high range (<-75V and >+75V): +/-1% + 80mV, 170mV floor |
| Accuracy Aging              | over -20° to +60° C (-4° to +140° F)<br>+/-0.5% + 20uA (med range)<br>+/-0.5% + 750uA (high range)<br>+/-0.13% per year                                                                                                                        |
| ADC Resolution              | 16 bits                                                                                                                                                                                                                                        |

Authorized Reseller



## READY TO SPEAK TO ONE OF OUR PRODUCT SPECIALISTS?

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1.844.689.3282 | (844.MTX.DATA)

## UDL2 SPECIFICATIONS

### ENVIRONMENTAL:

|                       |                                  |
|-----------------------|----------------------------------|
| Operating Temperature | -20° to +60° C (-4° to +140° F)  |
| Charging Temperature  | 0° to +40° C (32° to +104° F)    |
| Storage Temperature   | -40° to +70° C (-40° to +158° F) |
| Humidity              | 0 to 100% RH non-condensing      |
| Maximum Altitude      | 5000 meters above sea level      |
| Pollution Degree      | 1                                |

### PHYSICAL:

|           |                                           |
|-----------|-------------------------------------------|
| Size      | 89mm x 40mm x 18mm (3.5" x 1.6" x 0.72")  |
| Weight    | 75 grams (2.7 oz)                         |
| Enclosure | UV stable, wide temperature polycarbonate |

### DATA | POWER | COMMUNICATIONS:

|                             |                                                                                              |
|-----------------------------|----------------------------------------------------------------------------------------------|
| Memory Size                 | Up to 2,000,000 readings                                                                     |
| Battery                     | Internal Li-Ion (Not user replaceable)                                                       |
| GPS Receiver                | 50-channel u-blox                                                                            |
| Output File Data Resolution | 1uV/1uA for AC and DC readings<br>0.1° for temperature readings<br>0.00001° for GPS position |

Authorized Reseller

### PERFORMANCE:

|                                       |                                                                                                                                                                  |
|---------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Measurement Type                      | Category 2 (as per CSA C22.2 – 61010)                                                                                                                            |
| Analog Range - (Potential)            | +/- 22VDC, 15V true RMS AC, +/-22Vpeak                                                                                                                           |
| Analog Range - (Current-G1 model*)    | Medium: +/-60mADC, 40mA true RMS AC, +/-60mApeak<br>High: +/-300mADC, 200mA true RMS AC, +/-300mApeak                                                            |
| Analog Range - (Current-G2/G3 model*) | Low: +/-7mADC, 5mA true RMS AC, +/-7mApeak<br>Medium: +/-70mADC, 50mA true RMS AC, +/-70mApeak<br>High: +/-300mADC, 200mA true RMS AC, +/-300mApeak              |
| AC Rejection on DC Readings           | >65dB @ 50/60Hz                                                                                                                                                  |
| Input Impedance (Potential)           | >20Mohm                                                                                                                                                          |
| External Analog Channels              | 2 galvanically isolated with shared common                                                                                                                       |
| Lightning Immunity                    | Survives multiple 30KV surges                                                                                                                                    |
| Temp. Measurement Accuracy            | +/-4° C (+/-7° F) over -20° to +60° C (-4° to +140° F)                                                                                                           |
| Potential DC Accuracy                 | Over -20° to +60° C (-4° to +140° F)<br>+/-0.55% + 5mV                                                                                                           |
| Potential AC Accuracy                 | Over -20° to +60° C (-4° to +140° F)<br>+/-1% + 5mV, 20mV floor                                                                                                  |
| Current DC Accuracy                   | Over -20° to +60° C (-4° to +140° F)<br>+/-0.5% + 2uA (low range)<br>+/-0.5% + 20uA (med range)<br>+/-0.5% + 750uA (high range)                                  |
| Current AC Accuracy                   | Over -20° to +60° C (-4° to +140° F)<br>+/-1% + 20uA, 50uA floor (low range)<br>+/-1% + 25uA, 100uA floor (med range)<br>+/-1% + 750uA, 750uA floor (high range) |
| Accuracy Aging                        | +/-0.13% per year                                                                                                                                                |
| ADC Resolution                        | 16 bits                                                                                                                                                          |

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## ABOUT MOBILTEX®

At MOBILTEX, technology is just the beginning. We've been leading the industry in cathodic protection monitoring for corrosion prevention on over three hundred thousand of miles of pipelines throughout North America and around the world. That's why pipeline and corrosion engineers across all industries have come to rely on us.

With our innovative engineering, design and manufacturing, we've created dependable IIoT technology that's built smart, built tough, and built to last. Our success comes from thinking like our customers and we always engineer to

effectively solve your unique challenges. We're proud to say we've proven our technology in the harshest, most challenging of environments — time and time again.

But it doesn't stop there, every one of our solutions is backed by our industry leading customer service and support team that's ready to take you from product selection, to the initial set-up, through to our ongoing support.

**THIS IS MOBILTEX.  
WE'RE THERE.**



**35+ YEARS**  
OF MONITORING  
INNOVATION



**300K MILES**  
OF PIPELINE  
MONITORED



**~200**  
MAJOR ORGANIZATIONS  
ASSETS PROTECTED



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