

# CorTalk® uDL1

DATA LOGGER WITH GPS RECEIVER

# CorTalk® uDL2

DATA LOGGER FOR CP COUPONS

CorTalk



## DATA LOGGERS THAT DELIVER

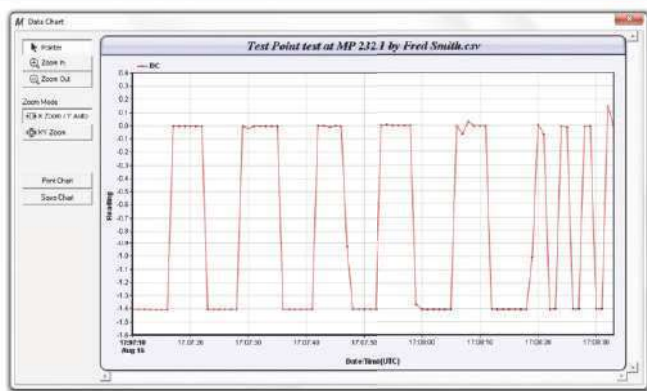
Periodic field surveys of cathodic protection systems can't identify frequent, short-term events that can seriously impact pipeline integrity. Mobiltex data loggers can.

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.

## 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 device configuration, data retrieval and charging via USB.
- **ENGINEERED TO WITHSTAND THE TOUGHEST CONDITIONS** — Lightning and surge protection with broad operating temperature range (-4°F to +140°F (-20°C to +60°C)).



Data preview graph of information collected by the uDL1 and 2 data loggers.

**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

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 0.1° for temperature readings 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 +/- 20VDC, 14V true RMS AC, 20Vpeak +/-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) low range: +/-0.25% + 100uV med range: +/-0.5% + 12mV high range (-75V to +75V): +/-0.5% + 100mV high range (<-75V and >+75V): +/-1% + 100mV
AC Measurement Accuracy	over -20° to +60° C (-4° to +140° F) low range: +/-0.3% + 80uV, 180uV floor med range: +/-0.65% + 10mV, 22mV floor high range (-75V to +75V): +/-0.65% + 80mV, 170mV floor high range (<-75V and >+75V): +/-1% + 80mV, 170mV floor over -20° to +60° C (-4° to +140° F) +/-0.5% + 20uA (med range) +/-0.5% + 750uA (high range)
Accuracy Aging	+/-0.13% per year
ADC Resolution	16 bits

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### ENVIRONMENTAL:

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### 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 High: +/-300mADC, 200mA true RMS AC, +/-300mApeak
Analog Range - (Current-G2/G3 model*)	Low: +/-7mADC, 5mA true RMS AC, +/-7mApeak Medium: +/-70mADC, 50mA true RMS AC, +/-70mApeak 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) +/-0.55% + 5mV
Potential AC Accuracy	Over -20° to +60° C (-4° to +140° F) +/-1% + 5mV, 20mV floor
Current DC Accuracy	Over -20° to +60° C (-4° to +140° F) +/-0.5% + 2uA (low range) +/-0.5% + 20uA (med range) +/-0.5% + 750uA (high range)
Current AC Accuracy	Over -20° to +60° C (-4° to +140° F) +/-1% + 20uA, 50uA floor (low range) +/-1% + 25uA, 100uA floor (med range) +/-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 one 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.**



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