MOBILTEX

CorTalk® RMU1-LITE

REMOTE MONITORING OF PIPE-TO-SOIL POTENTIAL AT TEST STATIONS

CorTalk
a MOBILTEX brand



FIT-FOR-PURPOSE FUNCTIONALITY

A simple, cost-effective solution to obtain pipe-to-soil potential measurements in remote or difficult-to-access locations.

The MOBILTEX CorTalk RMU1-LITE enables pipeline operators to quickly and easily equip CP test stations with robust and reliable remote data collection of pipe-to-soil potential measurements.

Offering essential, fit-for-purpose functionality, the RMU1-LITE is an ideal solution to cost-effectively scale IIoT capabilities and gain the benefits that large deployment remote data collection can bring to pipeline operation and maintenance.

Rather than relying on a single, annual measurement of pipe-to-soil potential, pipeline operators can remotely collect multiple data points throughout the year to understand seasonal variations and operational irregularities in CP performance.

THE RMU1-LITE COMPACT SIZE ALLOWS EASY INSTALLATION TYPICALLY IN UNDER 20 MINUTES

The battery-powered RMU1-LITE transmits measurement data via cellular or satellite networks at user-selected intervals to the MOBILTEX CorView web platform helping to dramatically reduce, or even eliminate, the need to travel to distant or difficult-to-access sites to obtain pipe-to-soil measurements.

Technicians can access measurement data from the CorView data and analysis platform using any web enabled device, from virtually any location, to see current and historical measurements, generate reports and perform trending and analysis to identify operational irregularities.

ADVANTAGES OF CORTALK RMU1-LITE

- **FAST, SIMPLE INSTALLATION —** The compact, weather-proof RMU1-LITE is designed to fit entirely inside of a standard CP test station and can be installed in about 20 minutes.
- **ENGINEERED FOR AFFORDABLE, HIGH-VOLUME DEPLOYMENT —** The RMU1-LITE has been designed to provide essential, fit-for-purpose functionality, enabling pipeline operators to affordably achieve high volume deployment and generate operational data that provides new insights into system dynamics.
- **INSTANT-OFF POTENTIAL MEASUREMENTS —** RMU1-LITE provides instant-off potential measurement, generating additional data to meet regulatory requirements and better manage pipeline assets.
- **REMOTE DUAL-REFERENCE CELL VALIDATION —** RMU1-LITE offers the unique capability to obtain separate pipe-to-soil potential measurements from two connected reference cells. This allows technicians to compare the results and validate whether the reference cells are functioning properly.
- **WITHSTANDS THE TOUGHEST CONDITIONS —** Industry-leading lightning, surge and overvoltage protection, IP65 and wide temperature range.
- **LONG BATTERY RUNTIME —** A user-replaceable battery provides up to 10 years of monitoring and data transmission, and helps maximize lightning isolation.

RMU1-LITE SPECIFICATIONS

ENVIRONMENTAL:

Operating Temperature	-40° to +60° C (-40° to +140° F)
Storage Temperature	-45° to +80° C (-49° to +176° F)
Maximum Altitude	5000 meters above sea level
Humidity	0 to 100% RH non-condensing

POWER | COMMUNICATIONS | DATA:

Battery Life	Typically 10 years based on readings every 14 days and two exception transmissions per month.
Internal Battery Measurement	OK, Warning and Low conditions displayed on CorView
Communications	Globalstar Simplex Satellite (RMU1S-LITE)
	Cellular UMTS B2,5 and LTE B2,4,5,12,13 (RMU1G-LITE)
	Cellular LTE Cat M1/NBIoT B2,4,5,12,13 (RMU1G-LTEM-LITE)
GPS Receiver	72-channel u-blox M8
Datalogger Storage (Factory Enabled Option)	1 million reading points

PERFORMANCE:

Pollution Degree	1
External Analog Channels	2 potential
Measurement Type	Category 1 (as per CSA C22.2 – 61010)
Analog Ranges (DC & AC True RMS)	Potential: +/-31VDC, 22VAC
AC Rejection on DC Readings	>65dB @ 50/60Hz
Lightning Immunity	Survives multiple 30KV surges
DC Measurement Accuracy (over operational temperature)	Potential: +/-1% + 1mV
AC Measurement Accuracy (over operational temperature)	Potential: +/-1.25% + 5mV, 20mV floor
Input Impedance	>20 Mohm (potential)
ADC Resolution	16 bits
Temp. Measurement Accuracy	+/-4° C (+/-7° F) over -40° to +60° C (-40° to +140° F)

PHYSICAL:

Weight	220 grams (0.5 lbs)
Size	80mm x 80mm x 110mm (3.15"x3.15"x4.33")
Enclosure	UV stable, wide temperature polycarbonate

Authorized Reseller



READY TO SPEAK TO ONE OF OUR PRODUCT SPECIALISTS?

CALL TOLL-FREE IN US OR CANADA:
1.844.689.3282 | (844.MTX.DATA)

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CLOUD PLATFORM



MOBILTEX CORVIEW:

POWERFUL VISUALIZATION AND CONTROL — IN ONE PLATFORM

CorView delivers powerful, secure two-way communication capabilities, data storage and reporting for the entire range of MOBILTEX CorTalk remote monitoring devices.

- **INTUITIVE INTERFACE DESIGNED FOR EASE-OF-USE**
  The CorView platform is designed for simplicity. Its thoughtfully engineered UI enables key personnel to quickly and easily access the data repository, reporting functions and remote RMU controls with virtually no training.
- **ACCESS ANYWHERE, WITH ANY WEB-ENABLED DEVICE**
  All data that is transmitted from the RMU devices is stored in the secure MOBILTEX multi-tenant global database and can be accessed from any location, providing users instant, comprehensive access to all performance data and activities.
- **CREATE DETAILED REPORTS, GRAPHS AND MAPS**
  Technicians and managers can easily view and download measurement data, create trending graphs and generate reports. CorView also displays easy-to-read maps that provide near real-time display of system status so technicians can see where CorTalk devices are operating normally, performing interruption activities or experiencing alarm conditions.
- **REMOTELY CONTROL AND UPDATE IN-FIELD DEVICES**
  CorView's robust cellular or satellite communication capabilities enable two-way communication with most RMU devices to remotely modify device configurations and to apply software updates and eliminate the need for time-consuming manual system updates.
- **NO I.T. OVERHEAD**
  The CorView web-based platform is entirely supported by MOBILTEX with automatic updates and enhancements - no updates ever required! AWS [Amazon Web Services] delivers enterprise grade security, scalablity, and performance.

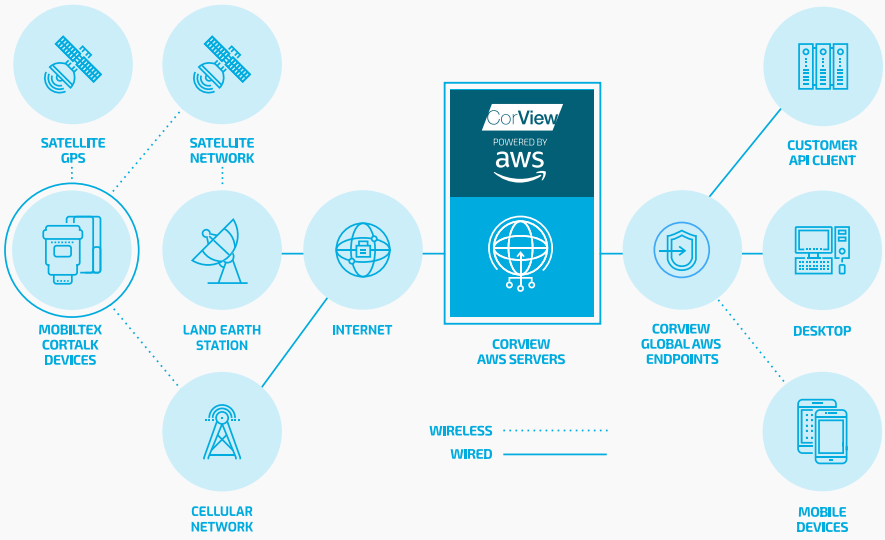
AICPA SOC
aicpa.org/soc4so
SOC for Service Organizations | Service Organizations

CLOUD ACCESS

1 **DATA ACQUISITION, SECURITY & CONTROL**

2 **VISUALIZATION & ANALYSIS**

3 **REPORTING, ALARMS & COLLABORATION**



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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

ONEOK · KINDER MORGAN · BHE TRANSMISSION · national gas · Williams · ExxonMobil · bp · ENBRIDGE · MARATHON · Shell · TC Energy



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