MOBILTEX

CorTalk® RMU1
REMOTE MONITORING FOR TEST STATIONS AND COUPONS

CorTalk® INT1
ACCESSORY INTERRUPTION CONTROLLER

CorTalk

RMU1:

TRUSTED REMOTE MONITORING

A true hidden talent. Designed to fit entirely inside a standard CP test station, the RMU1 is a small, powerful tool for remote monitoring of CP single or double coupons and structure bond applications.

The RMU1 collects and transmits CP performance data and GPS location as frequently as every few hours via satellite or cellular network. This provides technicians with a highly detailed, near-real-time view of the CP system and helps identify short-lived events that may impact CP performance.

When combined with the Mobiltex CorView web analytics platform, pipeline operators can implement a network of RMU1 devices to gain deep insight into the performance of the CP system, generate reports and instantly identify areas of concern.

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

RMU1 Generation 4 is also capable of two-way communication and can provide remote, GPS-synchronized interruption with the addition of Mobiltex INT1, a compact accessory module.

ADVANTAGES OF CORTALK RMU1

- Fast, simple installation; typically under 20 minutes .

- Configurable as a CP coupon or critical bond remote monitor.

- Multiple analog measurement channels provide accurate measurements for all required AC and DC parameters.

- A user-replaceable battery provides up to 10 years of monitoring, data transmission and helps maximize lightning isolation.

- Satellite or cellular transmission with cost-effective communication plans.

- Intuitive configuration using any web-enabled device.

- Generation 4 hardware platform allows connection of additional external accessory modules,

REMOTE, GPS-SYNCHRONIZED INTERRUPTION FOR BONDS AND SACRIFICIAL ANODES

Eliminate the need to install portable interrupters at test stations or to physically break bonds between pipelines, foreign rectifiers and structures when performing close interval survey (CIS) activities.

The Mobiltex CorTalk INT1 enables field technicians to quickly and permanently add remote, GPS-synchronized interruption capabilities to CorTalk RMU1 devices to obtain true off-potential readings during CIS.

The plug-and-play INT1 is designed for quick connection using a single cable and automatically pairs itself to the RMU1 Generation 4 device. Once active, the devices function as a single unit and enable interruption activities to be remotely configured and controlled using any web-enabled device and the Mobiltex CorView interface.

Transmit in real-time directly to technicians via satellite or cellular network

KEY FEATURES CORTALK INT1

- 2 DC/AC potential measurement channels and 1 DC/AC current measurement channel.
- 7A maximum for bond/anode current switching.
- +/-31V DC, 22V AC potential range.

SIMILAR TO THE RMU1, THE INT1 INTERRUPTER ACCESSORY FITS ENTIRELY WITHIN A STANDARD CP TEST STATION.

A second configuration uses a slightly larger test station cap to house the RMU1 and INT1, enabling a portable reference cell to be inserted down into the test post. In both cases, the INT1 is powered by an internal battery, which provides up to 10 years of operation.

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 7 days
Internal Battery Measurement	OK, Warning and Low conditions displayed on corView
Communications	Iridium SBD Satellite (RMU1ER-I)
	Cellular UMTS B2,5 and LTE B2,4,5,12,13 (RMU1ER-G)
GPS Receiver	72-channel u-blox M8
Datalogger Storage (Factory Enabled Option)	1 million reading points

PERFORMANCE:

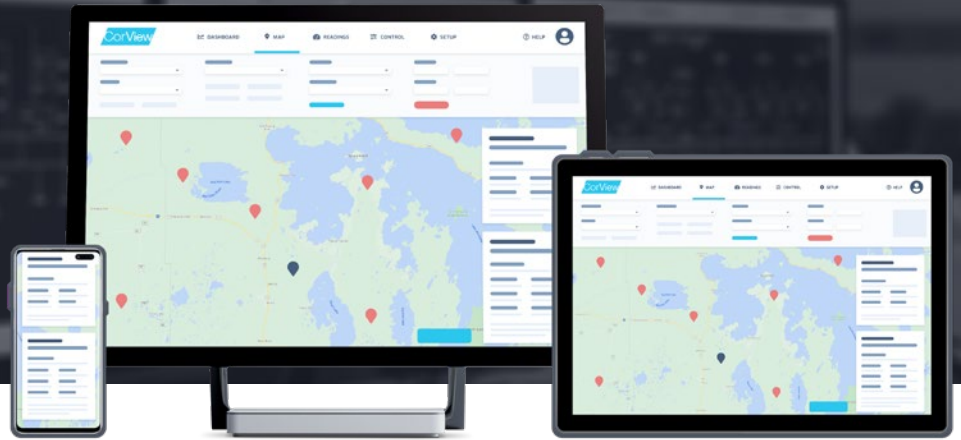|	
Pollution Degree	1
External Analog Channels	2 potential, 1 bond shunt, 1 coupon current
Measurement Type	Category 1 (as per CSA C22.2 – 61010)
Analog Ranges (DC & AC True RMS)	Potential: +/-31VDC, 22VAC
AC Rejection on DC Readings	>65dB @ 50/60Hz
Lightning Immunity	Survives multiple 20KV 10mS surges
DC Measurement Accuracy (over operational temperature)	Potential: +/-1% + 1mV
AC Measurement Accuracy (over operational temperature)	Potential: +/-1% + 5mV, 20mV floor
ER Probe Measurement Accuracy	+/-1% of useable probe life
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	225 grams (0.5 lbs)
Size	80mm x 80mm x 110mm (3.15"x3.15"x4.33")
Enclosure	Enclosure

READY TO SPEAK TO ONE OF OUR PRODUCT SPECIALISTS?

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

MOBILTEX

CorView

CORVIEW 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 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.
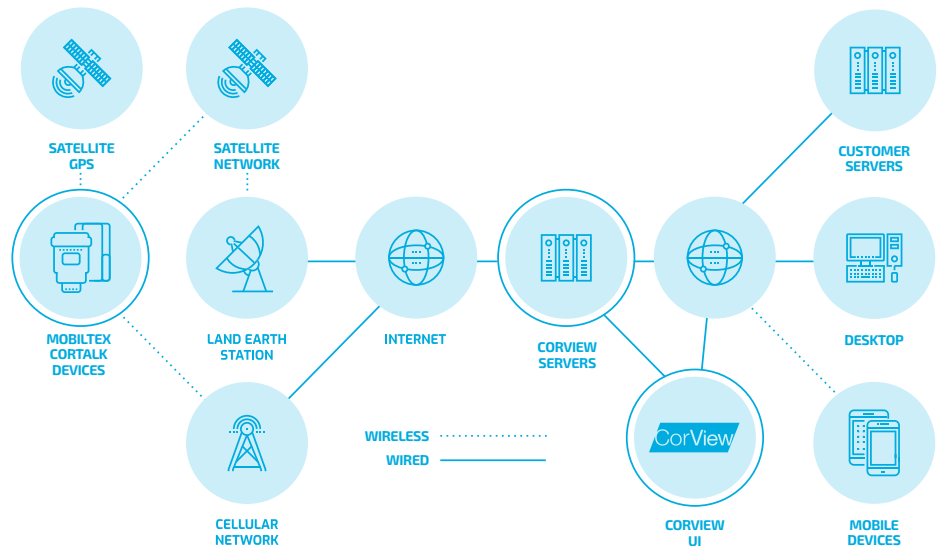
- **NO I.T. OVERHEAD**

  The CorView platform is entirely hosted and supported by MOBILTEX, all updates and enhancements to the platform are automatic and ongoing.

CLOUD ACCESS

1 DATA ACQUISITION & CONTROL

2 VISUALIZATION & ANALYSIS

3 REPORTING, ALARMS & COLLABORATION

SATELLITE GPS

SATELLITE NETWORK

CUSTOMER SERVERS

MOBILTEX CORTALK DEVICES

LAND EARTH STATION

INTERNET

CORVIEW SERVERS

DESKTOP

CELLULAR NETWORK

WIRELESS ‑ ‑ ‑ ‑
WIRED ─────

CorView

CORVIEW UI

MOBILE DEVICES

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.

MOBILTEX

MOBILTEX.COM

30+ YEARS
OF CP INNOVATION

>120K MILES
OF PIPELINE MONITORED

~200
MAJOR ORGANIZATIONS ASSETS PROJECTED

MAGELLAN MIDSTREAM PARTNERS, L.P. · KINDER MORGAN INC · Dominion Energy · PHILLIPS 66 · Williams · Chevron · bp · ENBRIDGE · MARATHON · Shell · TC Energy

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