



RMU2-S Satellite Remote Monitoring Unit



Interconnection cable



Satellite antenna transmitter

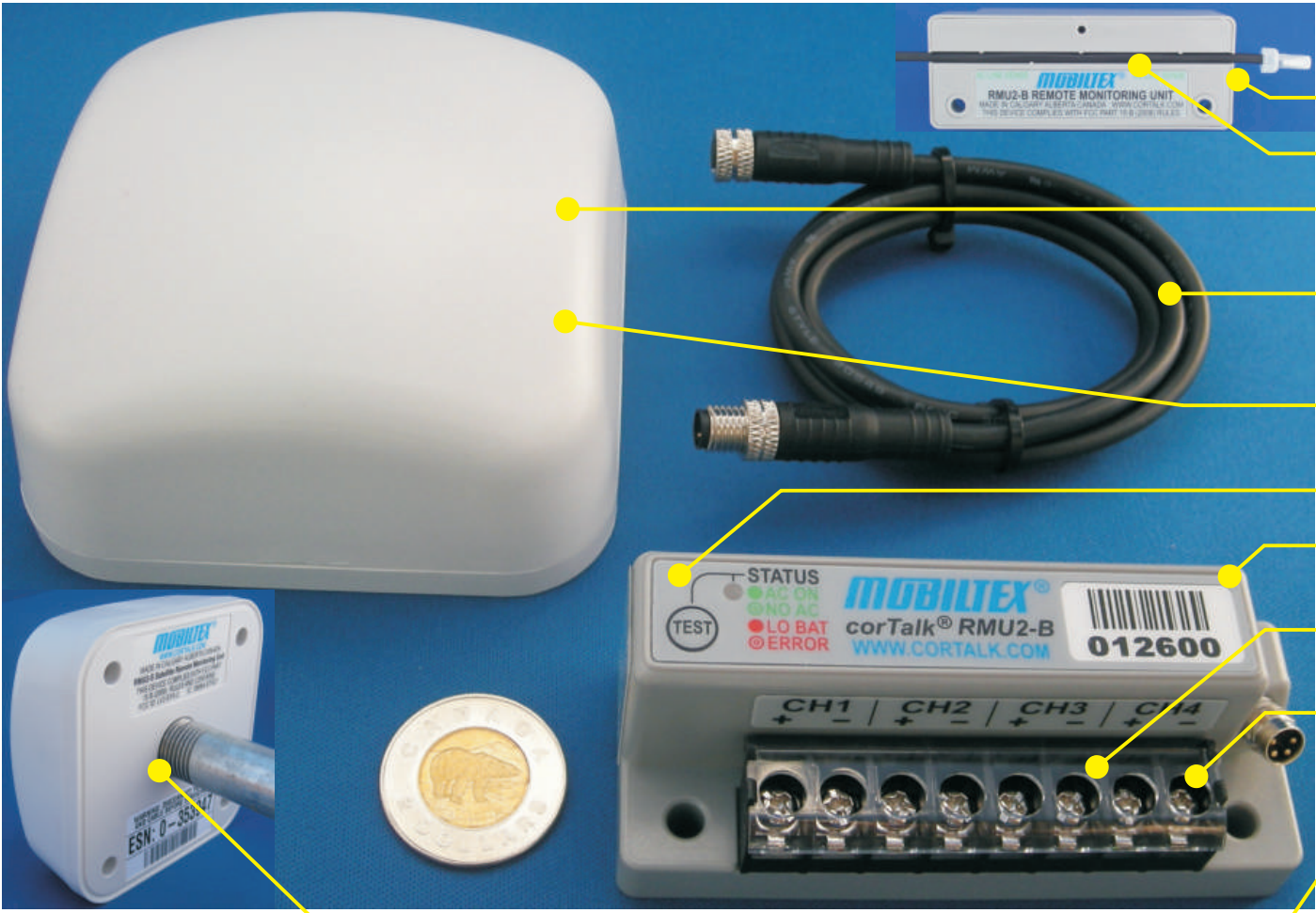


Measurement terminal block

All equipment on this page is the approximate physical size

PIPELINE INTEGRITY PRODUCTS

MOBILTEX



corView

Acme Pipeline Company Demo user: Guest User

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Rectifier Readings

Filter By: Group Name:
 Show Inactive Sites
 Filter Readings From:

Site Number	Site Name	Group Name	Status	Battery Status	Door	Temp	Reading Date (GMT)	Rectifier DC Volts	Rectifier DC Amps	Drain1 DC Amps	Drain2 DC Amps	Drain3 DC Amps	P/S DC Volts	P/S AC Volts	AC Ia
458	Rect A32	N. District 2	Scheduled	OK	Closed	3.0	24-Sep-08 17:30	47.22	-	18.97	11.39	9.49	-	-	Yes
458	Rect A32	N. District 2	Scheduled	OK	-	-	24-Sep-08 11:30	47.22	-	19.04	11.42	9.52	-	-	-
458	Rect A32	N. District 2	Scheduled	Low	-	-	24-Sep-08 5:30	47.22	-	19.02	11.41	9.51	-	-	-
458	Rect A32	N. District 2	Scheduled	Warn	-	-	23-Sep-08 23:30	47.20	-	18.94	11.36	9.47	-	-	-
458	Rect A32	N. District 2	Scheduled	OK	Closed	1.0	23-Sep-08 17:30	47.22	-	19.03	11.42	9.52	-	-	Yes
458	Rect A32	N. District 2	Button Press	OK	Closed	-2.0	23-Sep-08 13:16	47.22	-	19.09	11.46	9.55	-	-	Yes
458	Rect A32	N. District 2	Scheduled	OK	-	-	23-Sep-08 11:30	47.22	-	19.10	11.46	9.55	-	-	-
458	Rect A32	N. District 2	Scheduled	OK	-	-	23-Sep-08 5:30	47.22	-	19.11	11.45	9.54	-	-	-
458	Rect A32	N. District 2	Ultra	OK	Closed	1.5	23-Sep-08 5:30	47.22	-	19.11	11.45	9.54	-	-	Yes
458	Rect A32	N. District 2	Scheduled	OK	-	-	22-Sep-08 23:30	47.22	-	18.93	11.36	9.47	-	-	-
458	Rect A32	N. District 2	Alarm	OK	Closed	9.0	22-Sep-08 23:30	47.22	-	18.93	11.36	9.47	-	-	Yes
458	Rect A32	N. District 2	Scheduled	OK	Closed	7.0	22-Sep-08 17:31	47.22	-	18.93	11.36	9.47	-	-	No
458	Rect A32	N. District 2	Scheduled	OK	-	-	22-Sep-08 11:31	47.22	-	18.71	11.19	9.35	-	-	-
458	Rect A32	N. District 2	Scheduled	OK	-	-	22-Sep-08 5:31	47.25	-	18.78	11.27	9.43	-	-	-
458	Rect A32	N. District 2	Scheduled	OK	-	-	21-Sep-08 23:31	47.22	-	18.93	11.36	9.46	-	-	-
458	Rect A32	N. District 2	Clear	OK	Closed	11.0	21-Sep-08 22:13	47.22	-	18.92	11.35	9.46	-	-	Yes
458	Rect A32	N. District 2	Alarm	OK	Open	13.0	21-Sep-08 20:46	47.22	-	18.91	11.34	9.45	-	-	Yes
458	Rect A32	N. District 2	Scheduled	OK	Closed	8.5	21-Sep-08 17:30	47.22	-	18.94	11.36	9.47	-	-	Yes
458	Rect A32	N. District 2	Scheduled	OK	-	-	21-Sep-08 11:30	47.25	-	18.96	11.38	9.48	-	-	-
458	Rect A32	N. District 2	Scheduled	OK	-	-	21-Sep-08 5:30	47.22	-	18.94	11.36	9.47	-	-	-

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RMU2-S

- Magnetic door / tamper switch
- Non-contact AC line voltage presence sensor
- Small weather proof satellite transmitter and antenna mounts externally with a view of the sky
- Durable wide temperature cable with molded miniature waterproof connectors connects the two devices together
- Battery powered design simplifies installation and provides greater lightning immunity
- Test switch and device status indicator
- Sealed terminal block assembly mounts inside of the rectifier, test point or bond
- Exceptional lightning immunity provides long-term reliability
- Four galvanically isolated analog input channels
- Integral mounting system directly mates with industry standard ½" NPT electrical fittings
- Readings accessed with a web browser
- Powerful data sorting functions
- Color coded status information
- Easy to understand measurement labels
- Battery warning and alarm indications
- Color coded alarm and clear indications

The RMU2-S is a fixed function two piece product, specifically designed for cost sensitive cathodic remote-monitoring-only applications. This device is the ideal solution for automated monitoring of rectifiers, test points and bonds. The RMU2-S is equipped with four configurable analog measurement channels capable of accurately measuring a wide range of signals. Measurement data is remotely accessible through an intuitive Internet web interface called corView. The fully galvanically isolated design provides exceptional lightning immunity and long term product reliability.

Features:

- Simple and very quick to install (typically under 1 hour)
- High reliability, long operational life design
- Low capital equipment cost
- Economical fixed rate operational communication costs
- Satellite operation for maximum service coverage
- Four galvanically isolated analog input channels
- Each analog channel is bi-polar with 150mV (50 and 100mV current shunts), 20V, 165V and 4-20mA measurement ranges
- Each analog channel can be configured to read DC or True RMS AC (i.e. induced AC measurements)
- DC analog channels include >65dB of 50/60Hz AC rejection
- All analog channels are high impedance and allow direct connection to reference half-cells
- Analog channel measurement accuracy of +/-0.5% DC and +/-1% AC FS over -40° to +70°C (-40 to +158°F)
- Programmable low and high alarm window capability on each analog channel with report by exception facilities
- Scheduled reporting of data based on customer selected plan (every 6 hours, daily, every 2 days or weekly readings)
- Each channel has independent very high voltage lightning protection (will survive 20KV 10mS surge)
- No connection to ground for maximum lightning immunity
- Internal temperature measurement and reporting
- Powered exclusively from an internal battery for maximum lightning isolation and installation simplicity
- Primary battery will last for more than seven years based on readings every 2 days with a transmission every 8 days
- Primary battery is integral to the device but is user replaceable and readily available
- Compact two piece mechanical design
- Termination block assembly is 100mm x 38mm x 38mm (4.0" x 1.5" x 1.5") and environmentally sealed (mounts in rectifier)
- Satellite transmitter assembly is 97mm x 97mm x 52mm (3.8" x 3.8" x 2.0") and mounts externally with a view of the sky
- Components connect together with a single polyurethane cable with small (0.5" diameter) molded waterproof connectors
- Satellite transmitter includes a bottom side ½" threaded receptacle that mates directly to electrical conduit fittings
- Easy configuration through a USB PC interface
- Rectifier GPS position information transmitted to corView host
- IP67 sealed enclosure and cabling for harsh environments
- Operation in -40° to +70°C (-40 to +158°F) temperatures
- Integral AC line voltage inductive coupling sensor for safe and lightning immune detection of primary line voltage
- Magnetic door switch / tamper sensor with exception report

corView

- Firewall-friendly Internet web browser access
- corView is intuitive and easy to use
- Password protected user access
- Multiple client user accounts with configurable permission levels
- Independent screen displays for Rectifiers, Test Points and Bonds
- Sites can be grouped (i.e. regions, etc)
- Powerful data and site sorting functions
- Measurement data can be exported in CSV and Excel (via XML) formats
- corView archives 3 years of measurement data
- Color coded display of alarms and status information
- Configurable email call list for alarm conditions
- Low battery warning and alerting
- Alerting for missed communications from sites
- System performance email reports

About Mobiltex[®]

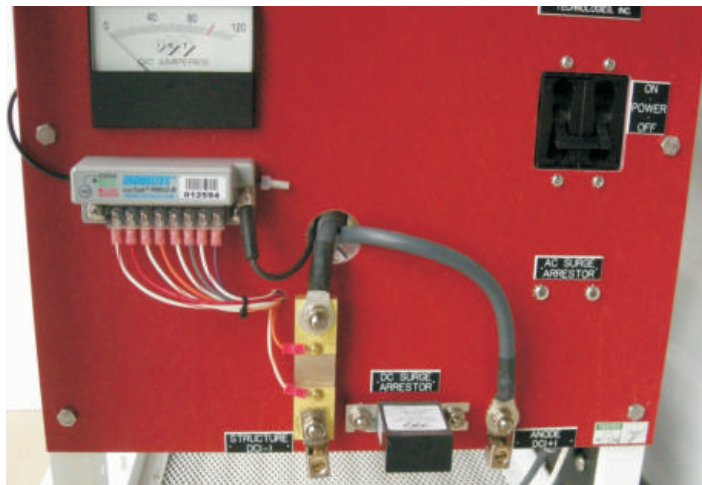
Mobiltex Data Ltd., formed in 1985 and headquartered in Calgary, Alberta, Canada engages in the engineering, design and manufacture of high-quality industrial mobile data systems.

All product engineering, electronic design, software development and manufacturing is done in-house. Mobiltex has worked extensively with radio manufacturers, system integrators and third party vendors, as well as the end-user to ensure seamless integration and implementation of systems. Continual product support and ongoing development can be tailored to each system requirement to maintain system integrity and protect against product obsolescence.

Emphasis on long-term reliability, ease of use, and product longevity have assisted Mobiltex to develop a reputation for high quality products in many diverse industries. All products are built to withstand harsh environments and are pretested for guaranteed reliability.

Mobiltex entered the remote cathodic monitoring market in 1991 with our SMC2 interrupter RTU. Over the last 18 years Mobiltex has designed three product generations of remote monitoring equipment. Mobiltex has a complete offering of field proven cathodic devices in our corTalk[®] product line. The RMU2 provides an easy, cost effective method of monitoring rectifiers, test points and bonds. The RMU5 provides monitoring and GPS synchronized interruption with a wide range of communication configurations and significant expansion capabilities. The SPI1 and SDL1 products provide portable and stationary GPS synchronized interruption and data logging functions. A wide array of product accessories and customization services provide a reliable solution that fits the client's requirements.

Mobiltex products are used worldwide in oil and gas, mining, transportation and communications industries.



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MOBILTEX

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