RULE THE MACHINES

Our commitment to delivering simple, easy-to-use technology and services with world-class reliability has made M2M the market leader in asset monitoring and management services for the energy sector. Streamline your operation with data collection and organization provided by the cutting edge RMS680.

Call +1-877-487-9626 to manage your jobsite with more efficiency than ever.

SEAMLESS FUNCTIONALITY

- RMS680 scans digital inputs and on change of state pushes all data points to the M2M Data Center
- The device scans all I/O & 3rd party hardware once per day and pushes all data points to M2M Data Center
- Reports GPS locations on power up
- User may demand poll for GPS coordinates or data
FEATURES & BENEFITS

- Class 1 Division 2, Groups A, B, C, D certified terminal meets industry standards for electronic equipment in oil and gas markets.
- Modbus protocol interfaces directly with common SCADA devices such as RTU, PLC and flow meters to quickly and easily implement reporting and telemetry capabilities for remote equipment.
- RS485 serial interface allows connection to SCADA devices over large distances to enable flexible deployment in a wide range of operating conditions.
- Seamless global coverage based on the Inmarsat satellite constellation enables operational benefits in remote regions.
- Expanded operating temperature range allows reliable deployment in some of the world's most demanding environments.
- Immediate reporting of digital status change (all data sent with report).
- Discrete inputs enable monitoring of local devices not using Modbus.
- Over-the-air programming enables M2M to remotely reconfigure parameters such as threshold levels or report frequency.

PHYSICAL
- **Size:** 160mm (diameter) x 47mm (height)
  Mounting kit adds 70mm to height
- **Mass:** ~315 g

ENVIRONMENTAL
- **Operating Temperature:** -40°C to +85°C
- **Storage Temperature:** -40°C to +85°C
- **Humidity:** 95% Relative Humidity at +30°C non-condensing
- **Dust & Water Ingress:** IP67/NEMA-4X
- **Vibration:** 5-20; Hz 1.92 m/s² random noise
  20-500 Hz: -3dB octave random noise
- **Shock (survival):** Half sine 6ms, 300 m/s²

ELECTRICAL
- **Input Voltage:** 9 VDC to 32 VDC
- **Power Consumption:**
  - Transmit mode: .7A
  - Hibernate mode: 100mA
- **RS485 ESD:** ± 15kV HBM
- **Mating Connector:** Conxall Mini-Con-X® 6282-85G-3DC

EXTERNAL INTERFACES
- **Serial:** RS485: MODBUS RTU interface
- **I/O:** Qty (1) Digital input (reserved for run status) Qty (1) Digital (selectable as input or output; max sink 250mA)

CERTIFICATIONS/COMPLIANCE
- **Satellite:** Inmarsat Type Approval
- **Satellite Service:** Two-way Global iSatDataPro

PROGRAMMING CAPABILITIES
- **Core Services:** Position reporting
- **Lua Script engine**
- **Low Power modes**
- **Modbus**

SATELLITE COMMUNICATIONS
- **Frequency:** Rx: 1525.0 to 1559.0 MHz
  Tx: 1626.5 to 1660.5 MHz
- **EIRP:** <7 dBW
- **Elevation Angle:** 0 degrees to +90 degrees
- **GPS**
- **Typical Latency:** <15 sec, 100 bytes
- **Acquisition:** Cold-start: 34s
- **SuperSense®:** -148 dBm
- **Accuracy:** 3 m CEP; 5 m SEP

SATELLITE MESSAGING
- **From Terminal:** Up to 6,400 bytes
- **To Terminal:** 10,000 bytes