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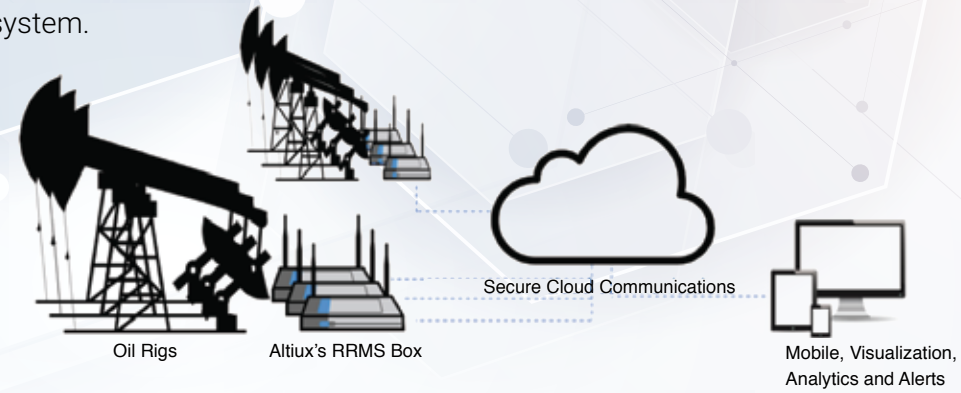
Real-time Remote Monitoring System (RRMS)

The RRMS is configurable, real time, multi-station, multi-site data logging and display system. Developed for monitoring industrial sensors and instrumentation.



Oil & Gas Use Case:

Remote monitoring, displaying and logging of pressure gauges, pump stroke counters, Choke position indicators

Oil & Gas RRMS

Features

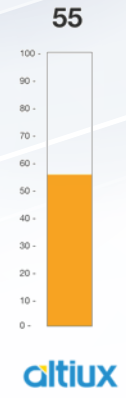
- NEMA complaint
- 8x analog / Digital inputs (Configurable)
- 16-bit output (configurable)
- Wireless LAN, GSM, Ethernet options
- Pressure gauges: 0-16,000 psi display (Field configurable)
- Choke position indicators: 0-100% display (Field configurable)
- Pump stroke counter: Total strokes displayed (Digital input)
- Operational temperature -35°C to 65.5°C.
- Power - Pig tail Connection
- Breaker with tag out & power switch
- Customizable quick connect

Benefits

- Help customers arrest revenue losses due to unexpected downtime.
- Reduce cost of field maintenance by performing remote digital diagnostics.
- Improving personnel safety working in hazardous sites.
- Extendable to perform analytics – present insights on data.
- Ability to provide alerts and notifications – Email, SMS and others for predefined threshold values.
- Help customers to move from reactive to predictive maintenance.
- Advanced graphic dashboard, data historians to provide a real-time data of all connected assets (Customizable)

Technical Summary

- **Voltage:** 9-28 VDC
- **Dimensions:** 299.97mm x 249.94mm x 150.11mm
- **Material:** Metal - Steel
- **Thickness:** 16 Gauge
- **Weight:** 9 lbs (4.1kg)
- **Temperature range:** -35°C to 65.5°C.
- NEMA chassis with Din Rails
- The enclosure is NEMA 1,2,4,4X and 12 compliant



Choke Position Reading

Pressure Reading

Network

- **Ethernet:**
  10/100 Base-T Ethernet Port
- **WiFi:**
  IEEE 802.11 b/g/n; Standard 3/5dBi
  Security: WEP, WPA-PSK, WPA2-PSK, 802.1x
  Transmission Rate:150Mbps
  Compliance: IEEE 802.3u 100BASE-TX
- **GSM:**
  - Industrial 4G Wireless LTE router
  - TD-LTE, FDD-LTE, WCDMA, TD-SCDMA, GSM/GPRS/EDGE
- FCC, ETSI and NCC certified wireless equipment

Inputs

- **Number of Inputs:** 8 (customizable)
- **Resolution:** 16-bit
- **Type:** Single-ended, differential, 4-20mA (0-20mA), or a combination
- **Input Range:** ±1.28V, ±2.56V, ±5.12V, ±10.24V, 4-20mA
- **Max Input Voltage (Vin):** -12.5V < Vin < +12.5V
- **Internal 4-20mA input shunt:** 200-ohm, ±0.1%, 25ppm (uses ±5.12V range)

Altiux Innovations is a software & product engineering services organization focused on helping you accelerate development of your IoT solutions and products. We provide specialized Engineering services across the entire IoT development cycle from consulting, device engineering, cloud and mobility application development, data analytics, and support & maintenance.
Altiux has developed an IoT Toolkit - BoxPwr™. BoxPwr is a production ready suite of software frameworks for sensor nodes & actuators, communication gateways, Edge computing & Cloud connectivity that helps accelerate IoT product & solution development.

At Altiux, we offer multiple models for commercial engagement that can be tailored to meet your specific needs.

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