



**FieldPORT™**

**Wireless  
Monitoring  
System**

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***Base Radio Logger Specifications***

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## FieldPORT™

### Wireless Monitoring System

#### Base Radio Logger Specifications

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##### Description

The Base Radio Logger is a key component of the AKS Technologies' wireless monitoring systems. It communicates with remote field sensors Units using a secure, reliable and robust communications protocol. The Base Radio easily connects to existing control systems, PCs and satellite collection systems making the integration of AKS systems with infrastructure simple and low cost. A unique feature of the Base Radio Logger is that Data are also recorded to an internal, removable, high-capacity compact flash memory card. This provides local, independent and redundant data storage.

A single Base Radio can communicate with up to 100 remote sensors. A wide variety of these sensors are available for measuring pressure (gauge, absolute and differential), temperature, level, events and flow.

AKS Technologies has integrated the Base Radio Logger into integrates packages for production well testing, long-term well-site monitoring and artificial lift applications providing complete monitoring solutions.



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#### Specifications

##### Integrated Application Packages

- Production Well Test Package
- Well Site Monitoring Package
- Artificial Lift Optimization Package

##### Wireless Sensors

- Up to 100 individual wireless sensors per base logger
- Configurable "virtual" sensors

##### Wired Sensors

- Direct interface to surface readout
- system for permanent down-hole tool monitoring

##### Communications (standards)

- (2) RS-285 digital communications lines (RTU Modbus, User defined)
- (1) rS-232 serial communications line Serial RTU Modbus
- Satellite/Cellular Interface Complete, real-time web based

- monitoring capability

##### Data Storage

- Internal Compact Flash Card (up to 2 GB) - millions of measurements
- Multiple concurrent data streams (simultaneously log data, communicate with satellite, monitor locally)

##### Configuration and Display

- May be configured directly using front-panel push-buttons
- Display network status.

##### Power Options

- 10-28VDC (0.2 amp-normal load < 60 ma)
- 120/240 VAC adapter
- Optional battery and solar panel systems

##### Enclosure/Packaging

- Baked enamel explosion-proof,

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weather-proof (NEMA 4x) and  
corrosio-proof housing

- NEMA 4x enclosure with solar and satellite controll - well Site
- Monitoring Package

#### RF Characteristics

- Up to 3000' range to field Units with clear line of sight; 500' to 1000' range with obstructions.
- 902 MHz-928 MHz Frequency Hopping Spread Spectrum (FHSS), FDD certified ISM license-free band.
- Ultra-secured and reliable data communications protocol.

#### Industrial Certification with Integral Antenna

- Rated for industrial use FM Rated-40° F to +185° F (-40° C to +85° C);
- CSA Rated -40° F to +104° F (-40° C to +40° C)

- FM Approved as explosion-proof (XP) for Class 1, Group B<C &D, T6@ ambient temperatures +40°; T5@ ambient temperatures +85° C; as dust ignition-proof for Class II/III, Division 1, Group E, F, & G, T6; indoor and outdoor (Type 4x) hazardous (classified) locations.
- CSA Approved as explosion-proof (XP) for Class I, Division 1, Groups B, C, & D, T4@ ambient temperatures +40° C; as dust ignition-proof for Class II/III, Division 1, Groups E, F, & G. indoor and outdoor ( type 4X) hazardous (classified) locations.
- NEMA 4X weather-proof housing.
- Meets EN 50082-1 general immunity standars and EN 55011 compatibility emission standard.

#### Remote Antenna Options

- Available with high-gain remote antenna (2x standard range).

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