

## FieldPORT™

# Wireless Monitoring System

## Differential Pressure Gauge Specifications

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### Description

The wireless differential pressure gauge is a key component of the AKS **FieldPORT™** wireless monitoring systems. The Differential Pressure Field is a complete, integrated differential pressure sensor, a signal conditioner and RF transceiver with self-contained power operating in the 902 MHz to 928 MHz ISM license-free band.

The Differential Pressure Field Unit may be operated in any one of four modes:

- Differential Pressure
- Orifice Flow
- Open Channel Flow
- Level

(See configuration options below)

Data from the sensor are transmitted to a Base Radio Logger for centralized monitoring and data acquisition. You may specify updates between once per second and once per minute based on how frequently the process is monitored and how often the data is transmitted.

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### Differential Pressure Models Maximum static Pressure: 2000 PSI

Model	Range
WI-DP-1-1001N	±100 in H <sub>2</sub> O
WI-DP-I-3001N	±300 in H <sub>2</sub> O
WI-DP-I-25PSI	±25 PSI
WI-DP-I-100PSI	±100, -25 PSI
WI-DP-I-300PSI	±300, -25 PSI

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#### Specifications

##### Integrated Application Packages

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

##### Accuracy

- $\pm 0.2\%$  of sensor URL including combined effects of linearity, hysteresis, repeatability and temperature

##### Stability

- Less than  $\pm 0.25\%$  of sensor URL per year at
- ambient temperature

##### Static Pressure Effect

- $\pm 1.0\%$  of URL PRE 1000 PSI
- typical

##### Return From Overpressure

- $\pm 0.04\%$
- 

##### Sensitivity in Reverse Pressure Direction

Within 1.0% of forward direction

##### Mounting and Ambient Environment

- $\pm 1.5\%$  in H<sub>2</sub>O, correctable with position zero

##### Operating Ambient Environment

- Operating: -40°F to 185°F (-40°C to +85°C)
  - Process: 40°F to 250°F (-40°C to +121°C)
- process temperature, steady state sensor  
Humidity limits: 0 to 95%, non-condensing

##### Power Characteristics

- Self-contained power
- 'C' size 3.6 V lithium battery
- Up to five year battery life (depends on sample rate and RF update rate (field replaceable))

##### RF Characteristics

- 902 MHz - 928 MHz Frequency Hopping Spread Spectrum (FHSS) FCC certified ISM license-free band
- Up to 3000' range from Base Radio with clear line of sight, 500' to 1000' typical range with obstructions

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