



Pile Dynamics, Inc.

Quality Assurance for Deep Foundations

Wireless Transmitter Specifications*

16-001

*For use with Smart Accelerometers and Strain Transducers and PDA model 8G

2 data acquisition channels

Transmits data from any of these sensor combinations:

- two strain transducers

- one strain transducer and one piezoresistive (PR) accelerometer

- one strain transducer and one piezoelectric (PE) accelerometer

- two PR accelerometers

- one PR accelerometer and one PE accelerometer

2 signal conditioning channels compatible with a strain transducer, PR accelerometer, or PE accelerometer connected to either channel

24-bit A/D converter with 2 channels at up to 20KHz sample rate per channel

1K, 2K, and 4K data record sizes available – user selectable

Data transmission: via a standard radio protocol

Radio transmission range: 100 m (328 ft)

Radio output frequency range: 2.412 GHz to 2.497 GHz

Output power: 14 dBm

Ultra-Low Power IEEE 801.11b/g/n compliant.

Low power processor and built-in 3.7 V battery; maximum 8.5 hours of run time during constant data acquisition

Size: 175 x 90 x 20.7 mm (6.9 x 3.5 x 0.8 in)

Weight: 0.63 Kg (1.4 lbs.)

Temperature range: Operating 0° to 40° C (32° to 104° F); Storage -20° to 65° C (-4° to 149° F)