



Pile Dynamics, Inc.

Quality Assurance for Deep Foundations

Pile Driving Analyzer® System Specifications (PDA Model 8G)*

August 2021

* The PDA-8G is patented under the Remote Pile Driving Analyzer US Patent No. US 6301551 B1

Physical

Size: 320 X 250 X 68 mm (12.6 x 9.8 x 2.7 inches)

Weight: 5 Kg (11 lbs.)

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

Display: 26.4cm (10.4"), sunlight readable, resolution 1024 X 768

Built in capacitive touch screen

Video Outputs: HDMI

Power: 4-hour continuous data collection battery pack, 12 VDC car battery, or 100-240 VAC.

Extra battery pack supplied.

Charging time: 6-hour maximum

Electronic

Microsoft Windows® 10 Operating System

Minimum of 128 GB SSD internal drive

Ethernet port

4 USB ports

Analog signal conditioning filtering (frequency response) 2.5 KHZ (-3 dB)

16-bit A/D converter with sampling frequency of 10.24 MHz

8 channels with effective digitizing frequency of 10 KHz to 40 KHz selectable

1K, 2K, or 4K data record sizes available

Basic unit accuracy 2%

Functional

Built in calibration test function

Compatible with Smart Sensors

Wireless range up to 100 m (328 ft)

Up to 16 universal (strain or acceleration, piezoelectric or piezoresistive) channels of wireless data acquisition¹

Up to 8 universal (strain or acceleration, piezoelectric or piezoresistive) channels of traditional data acquisition

Piezoresistive accelerometer for high frequency and high acceleration events such as SPT, or steel on steel impacts

Piezoelectric accelerometer is more cost effective and useful in most other pile driving applications

Automatic balancing of signals and signal conditioning

Digital (software) integration of acceleration

Signal conditioning for force and acceleration have similar frequency response

Internal calibration check of strain and acceleration

Signal amplification capability

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Triggers on any attached strain transducer
User adjustable pre-trigger buffer size
High speed internet data transmission using SiteLink® through broadband phone or other network device (additional desktop sharing software needed)
Dial up data transmission through data capable mobile phone connected via USB

¹ limited to one piezoelectric accelerometer per box

Other

Operates in English, SI, or Metric units
Includes external USB keyboard, mouse, and WiFi (802.11 b,g,n)
Includes both soft side carry-on luggage case and hard transit case
Equipped for remote technical support using SiteLink®
Available TeamViewer desktop sharing software license for use with SiteLink®
Furnished with licenses for PDA Software Suite (PDA-S, iCAP®, PDILOT and PDI Curves), GRLWEAP and CAPWAP®
Full one-year warranty
Technical manual provided in PDF form on a USB drive