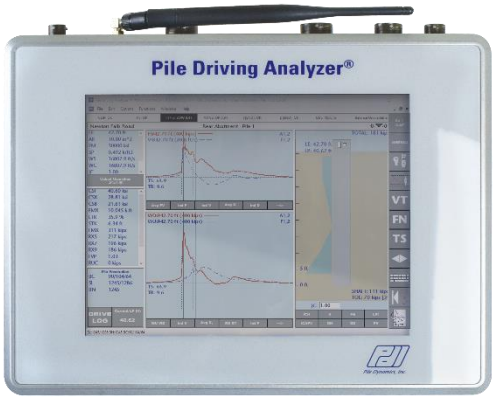
Pile Dynamics, Inc.
www.pile.com • 1.216.831.6131

Technical Specifications

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

Physical



Size

320 X 250 X 68 mm (12.6 x 9.8 x 2.7 in)

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 or higher Operating System
Minimum of 128 GB SSD internal drive

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

Rev. 02.2024

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 PDI Smart Sensors
Wireless range up to 100 m (328 ft)
Up to 16 universal (strain or acceleration, piezoelectric or piezoresistive) channels of wireless data acquisition[1]
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
Triggers on any attached strain transducer or accelerometer
User adjustable pre-trigger buffer size
High speed internet data transmission using SiteLink® Technology through broadband phone or other network device (additional desktop sharing software needed)
Data transmission through data capable mobile phone connected via USB

[1] limited to one piezoelectric accelerometer per box

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Technical Specifications

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® Technology
Available TeamViewer desktop sharing software license for use with SiteLink Technology
Furnished with licenses for PDA Software Suite (PDA-S, iCAP®, PDIPLOT and PDI Curves), GRLWEAP and CAPWAP®
Full one-year warranty
Technical manual provided in PDF form on a USB drive

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