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
Technical Specifications

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
  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®, PDIPL0T and PDI Curves), GRLWEAP and CAPWAP®
- Full one-year warranty
- Technical manual provided in PDF form on a USB drive