Pile Driving Analyzer® system Specifications (Model 8G)  

September 2015

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, VGA
Power: 4 hour continuous data collection battery pack, 12 VDC car battery, or 100-240 VAC. Extra battery pack supplied. Charging time: 6 Hours max.

Electronic:
Microsoft Windows® 7 Operating System
60 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 acquisition
Up to 8 universal (strain or acceleration, piezoelectric or piezoresistive) channels of traditional data acquisition
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; simultaneous trigger of all channels
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

Other:
Operates in English, SI, or Metric units
Optional external USB keyboard, mouse, and WiFi (802.11b,g,n) available
Includes both soft side carry-on luggage case and hard transit case
Equipped for remote technical support using SiteLink
Optional TeamViewer desktop sharing software license for use with SiteLink
Furnished with licenses for PDA Software Suite (PDA-S, iCAP®, PDI PLOT2 and PDI Curves), GRLWEAP and CAPWAP®
Full one year warranty
PDA manual in PDF format and printed CAPWAP manual included

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