Pile Dynamics, Inc.

Quality Assurance for Deep Foundations

Pile Integrity Tester (PIT-QV & PIT-QFV) Specifications April 2016

Physical

Size: 272 X 212 X 60 mm
Weight: 2.04 Kg
Sunlight readable VGA color display for any lighting conditions, resolution 640 x 480 pixels
Screen size: 21.3 cm (8.4")
Temperature Range: Operating: -20 to 40˚ C; Storage: -30 to 65˚ C
Powered by Internal Battery (10-hour duration)

Electronic

Data Storage: Built in 128 GB drive
USB port for data retrieval
24-bit A/D converter
Analog Signal Frequency response: 22 KHz (-3dB)
Sampling Digitizing frequency of > 1 MHz (net frequency after DSP > 32 KHz)
Sampling Frequency accuracy within 0.01%
Sampling speed of 32 KHz – 150 KHz
Windows 10 Operating System

Functional

One (PIT-QV) or two (PIT-QFV) channels of acceleration data acquisition
One (PIT-QV) or two (PIT-QFV) integrators of acceleration to velocity
PIT-QV accepts data from one traditional accelerometer
PIT-QFV accepts data from two traditional accelerometers or from one traditional accelerometer and one traditional instrumented hammer
Input of names and descriptions for each pile tested
Date and time stamps
Signal amplification capability, variable over time
Capability of measuring and reproducing signals of duration between 2 and 30 ms
Data can be averaged over a variable number of blows
FFT (Fast Fourier Transform) feature

Other

Includes licenses of PIT-W Standard and PIT-S
Soft carrying case
Full one-year warranty
Operates in English or Metric units
Technical manual provided in PDF form on a USB drive

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