Pile Integrity Tester (PIT-XV & PIT-XFV) Specifications

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Physical

Size: 135 X 104 X 52 mm
Weight: 0.45 Kg
Sunlight readable VGA color display for any lighting conditions, resolution 640 x 840 pixels
Screen size: 9.4 cm (3.7")
Temperature Range: Operating: 0 to 40˚ C; Storage 20 to 65˚ C
Powered by Internal Battery (8-hour duration)

Electronic

Microprocessor: PXA270 @ 520 MHz
Data Storage: Built in 2 GB drive
USB port for data retrieval
24-bit A/D converter
Analog Signal Frequency response: 31 KHz (-3dB)
Sampling Digitizing frequency of > 1 MHz (net frequency after DSP > 32 KHz)
Sampling Frequency accuracy within 0.09%
Wireless range 3m
Sampling speed of 64KHz for normal pile testing (up to 128 KHz for shorter piles or floor slabs)

Functional

One (PIT-X) or two (PIT-XFV) channels of acceleration data acquisition
One (PIT-X) or two (PIT-XFV) integrators of acceleration to velocity
PIT-X accepts data from one wireless PIT-X accelerometer, or from a traditional accelerometer
PIT-XFV accepts data from a wireless accelerometer and a wireless instrumented hammer,
from a traditional
accelerometer and a traditional instrumented hammer, or from two traditional accelerometers (2V mode)
Input of names and descriptions for each pile tested
Date and time stamps
Signal amplification capability
Capability of measuring and reproducing signals of duration between 8 and 30 ms
Data can be averaged over a variable number of blows
Variable signal amplification over time

Other

Soft carrying case
Full one-year warranty
Operates in English or Metric units
Technical manual provided in PDF form on a USB drive