



Pile Integrity Tester PIT-X and PIT-XFV Specifications

July 2014

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 hours 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 included