



Pile Integrity Tester Accessories Specifications

April 2016

Traditional accelerometers (for all models of PIT):

Size: 20 x 20 x 60 mm	Temperature Range: -50 to 120°C operating
Circuit: Integral impedance converting electronics	Nominal sensitivity 50 mV/g
Acceleration range: ±100g	Shock limit: 30,000 g
Frequency range: 0.7 to 9000 Hz	Amplitude linearity: < ± 1%
Resonant frequency: >40 kHz	Nominal time constant: 0.5 s
Low noise shielded cable (1500mm)	Available in top or side mount
Full waterproofing optional	Attachment by bolt on system (side) or flat base mount (top) with adhesive

Wireless accelerometer (for PIT-X and PIT-XFV):

Size: 92 mm H X 44 mm dia. (nominal, 53 mm max.)	Temperature Range: 0 to 40° C operating; -20 to 65° C Storage
Weight: 0.112 Kg	Nominal sensitivity: 50mV/g
Acceleration range: ±100 g	Shock limit: 30,000 g
Frequency range: 0.7 to 9,000 Hz	Amplitude linearity: < ± 1%
Resonant frequency: > 40 KHz	Nominal time constant: > 0.5 s
Data transmission range 3m	Data transmission frequency 2.4 GHz to 2.4835 GHz
Internal battery (8 hour duration)	Available in top mount only
	Attachment by flat base mount with adhesive

Hammers:

Handle type hammers have replaceable hard plastic hammer tips.
All instrumented hammers are equipped with a 1mV/g accelerometer

Weight	Non instrumented (handle type) for any model of PIT	Instrumented for PIT-QFV and PIT-FV (traditional)	Instrumented for PIT-XFV (wireless)
0.5 kg (1 lb.)	Tip diameter 38.1mm (1.5")	Tip diameter 38.1mm (1.5") drop type	Gross weight 1.02 kg (2.25 lb.)
0.9 kg (2 lb.)	Not available	Not available	Gross weight 1.42 kg (3.15 lb.)
1.4 kg (3 lb.)	Tip diameter 50.8mm (2")	Tip diameter 50.8mm (2") drop type	Not available
3.6 kg (8 lb.)	Tip diameter 76.2mm (3")	Not available	Not available
4.1 kg (9 lb.)	Not available	Tip diameter 76.2mm (3") handle type	Not available

Additional wireless instrumented hammer specifications:

Size: Dia. 90.2 mm (3.55") Height 254 mm (10.0") independent of weight
Temperature Range: 0 to 40° C operating; -20 to 65° C Storage
Data transmission range 3m
Data transmission frequency 2.4 GHz to 2.4835 GHz
Internal battery (8 hour duration)