



*Pile Dynamics, Inc.*

**Pile Integrity Tester (PIT) Accessories Specifications\***

19-335

\*For all PIT Models

*Traditional Accelerometers*

Size: 20 x 20 x 60 mm (.78 x .78 x 2.36 in)

Acceleration range:  $\pm 50g$

Frequency range: 0.5 to 10000 Hz ( $\pm 5\%$ )

Resonant frequency:  $> 50$  kHz

Low noise shielded cable (1500 mm [50 in])

Temperature Range: operating  $-54$  to  $93^{\circ}C$

Nominal sensitivity 100 mV/g

Shock limit: 5,000 g

Amplitude linearity:  $< 1\%$

Nominal time constant: 1 to 2.5 s

Available in top or side mount

Attachment by bolt on system (side) or flat base mount (top) with adhesive

PIT-X V & PIT-X FV Models

*Wireless Accelerometer*

Size: 92 mm H x 44 mm dia.; nominal, 53 mm max. (3.62 in H x 1.73 in dia.)

Weight: 0.112 Kg

Acceleration range:  $\pm 50$  g

Frequency range: 0.5 to 10,000 Hz

Resonant frequency:  $> 50$  KHz

Data transmission range 3 m (9.84 ft)

Temperature Range: operating  $0^{\circ}$  to  $40^{\circ} C$  ( $32^{\circ}$  to  $104^{\circ} F$ ); storage  $-20^{\circ}$  to  $65^{\circ} C$  ( $-4^{\circ}$  to  $149^{\circ} F$ )

Nominal sensitivity: 50 mV/g

Shock limit: 5,000 g

Amplitude linearity:  $< 1\%$

Nominal time constant:  $> 1$  to 2.5 s

Data transmission frequency 2.4 GHz to 2.4835 GHz

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



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**Quality Assurance for Deep Foundations**

<b>Weight</b>	<b>Non instrumented (handle type) for any model of PIT</b>	<b>Instrumented for PIT-QFV and PIT-FV (traditional)</b>	<b>Instrumented for PIT-XFV (wireless)</b>
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 in) Height 254 mm (10.0 in) independent of weight

Temperature Range: operating 0 to 40° C (0° to 104° F); storage -20 to 65° C (-4° to 149° F)

Data transmission range 3 m (9.84 ft)

Data transmission frequency 2.4 GHz to 2.4835 GHz

Internal battery (8-hour duration)