



Pile Dynamics, Inc.
www.pile.com • 1.216.831.6131

Technical Specifications

Pile Integrity Tester (PIT) Accessories Specifications*

Traditional Accelerometers

Size

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

Acceleration range

±50g

Frequency range

0.5 to 10000 Hz (±5%)

Resonant frequency

>50 kHz

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

Temperature Range

Operating -54 to 93°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



*For all PIT Models



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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

±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° to 40° C (32° to 104° F); storage -20° to 65° C (-4° to 149° 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

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Technical Specifications

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 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)

*For all PIT Models