



Pile Dynamics, Inc.

Thermal Integrity Profiler (TIP) Specifications

21-182

Main Unit

Physical

Size: 272 x 212 x 60 mm (10.7 in x 8.3 in x 2.4 in)

Weight: 2.04 Kg (4.5 lbs.)

Sunlight readable VGA color display for any lighting conditions, resolution 640 pixels x 480 pixels

Screen size: 21.3 cm (8.4 in)

Temperature Range: Operating: -20° to 40° C (-4° to 104 ° F); Storage: -30° to 65° C (-22° to 149° F)

Powered by Internal Battery (10-hour duration)

Data Storage: Built in 32 GB drive minimum

Data Retrieval: USB port or WiFi

Microsoft Windows® 10 Operating System

Thermal Acquisition Port for Wires (TAP)

Size: 133 x 102 x 57 mm (5.2 x 4 x 2.2 in)

Weight: 766 g (1.7 lbs.)

Temperature Range: Operating: -20° to 65° C (-4° to 149° F); Storage -40° to 85° C (-40° to 185° F)

Contains 1 installed Li-Ion battery or 0.64 grams ELC

Internal Battery (28-day duration)

Sampling frequency: user programmable, defaulted to once every 15 minutes

Hangs from reinforcement cage; may be bolted to cage for security

Water Resistant

Thermal Acquisition Port with cloud access for Wires (TAP-Edge)

Size: 114 x 65 x 41 mm (4.5 x 2.6 x 1.6 in)

Weight: 400 g (0.9 lbs.)

Temperature Range: Operating -20° to 65° C (-4° to 149° F); Storage -40° to 85° C (-40° to 185° F)

Contains 2 installed Li-Ion battery (14.8 W Hrs.)

Internal Battery (20-day duration)

Sampling frequency: user programmable, defaulted to once every 15 minutes

Hangs from reinforcement cage; may be bolted to cage for security

Water Resistant

Thermal Aggregator for Wires (TAG)

Size: 160 x 80 x 57 mm (6.3 x 3.2 x 2.2 in)

Weight: 540 g (1.2 lbs.)

Temperature Range: Operating: -20° to 65° C (-4° to 149° F); Storage -40° to 85° C (-40° to 185° F)



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Contains 2 installed Li-Ion battery (22.2 W Hrs.)
Internal Battery (10-day duration)
Sampling frequency: user programmable, defaulted to once every 15 minutes
Hangs from reinforcement cage; may be bolted to cage for security
Water Resistant

Thermal Wire Tester Box for Wires

Size: 133 x 102 x 57 mm (5.2 x 4 x 2.2 in)
Weight: 766 g (1.7 lbs.)
Temperature Range: Operating: -20° to 65° C (-4° to 149° F); Storage -40° to 85° C
(-40° to 185° F)
Contains 1 installed Li-Ion battery or 0.64 grams ELC
Internal Battery (28-day duration)
LCD Display Screen
Adapter cable included for splice cables and is required for spliced cables
Does not store data

Thermal Wire® Cables

Sensor type: digital
Furnished in rolls of length starting at 6 m (20 ft) with length increments of 1.5 m (5 ft)
Sensor spacing: 305 mm (12 in)
Sensor operating temperature: -20° to 65° C (-4° to 221° F)
Sensor Accuracy: ± 0.5° C (± 0.9° F)
Splicing: multi segment cables available upon request – featuring quick-connect

Thermal Acquisition Port for Probes (TAPP)

Size: 114 x 133 x 57 mm (4.5 x 5.2 x 2.2 in)
Weight: 822 g (1.8 lbs.)
Temperature Range: Operating: -20° to 65° C (-4° to 149° F); Storage -40° to 85° C
(-40° to 185° F)
Internal Battery (8-hour duration)
Contains 2 installed Li-Ion batteries (1.28 grams ELC)
Sampling frequency: once per second, or as a function of depth (user adjustable)
Water Resistant

Probe

Sensor type: infrared (four orthogonal sensors)
Size: 130 x 30 mm (5.1 x 1.2 in)
Weight (Probe): 5.2 kg (11.5 lbs.)
Cable length: 60 or 100 m (200 or 332 ft)
Weight (60 m Cable): 3.3 kg (7.4 lbs.)
Weight (100 m Cable): 8 kg (17.6 lbs.)



Quality Assurance for Deep Foundations

Pile Dynamics, Inc.

Sensor operating temperature: up to 105° C (221° F)

Removable sensor head

Water resistant

Depth Measurement Unit

Type: Rotary Encoder

Resolution: 2.5 mm (0.1 in)

Other

Soft carrying case

Full one-year warranty

Operates in English or Metric units

Technical manual provided in PDF form on a USB drive