



Pile Dynamics, Inc.  
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# Technical Specifications

## E-Saximeter (ESAX) Specifications

### Main Unit

#### Size

100 x 190 x 50 mm (3.93 x 7.48 x 1.96 in)

#### Weight

0.54 kg (1.19 lbs.)

#### Temperature range

Operating 10° to 40°C (50° to 104°F); storage -10 to 65°C (14° to 149°F)

#### Power

Built-in rechargeable battery with 16-hour minimum duration

#### Display

LCD, 4 lines x 16 characters, viewing area 62 x 26 mm (2.44 x 1.02 in)

#### Keypad

Large Key 1.27 mm<sup>2</sup> (.0019 in<sup>2</sup>), non-tactile

### Electronic

32-bit CICS Micro CPU up to 50MHz

10-bit 2 channel analog to digital converter; 8-bit 2 channel digital to analog converter

Internal microphone 70 to 115 dB

Standard Type A USB drive for data transfer

8 MB internal Magneto-resistive RAM





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## Functional and Other

### Maximum blow detection rate

68 bpm for open end diesel hammers; 300 bpm for all others

### Operating units

English or SI

Full one-year warranty

Technical manual provided in PDF form on a USB drive

## Optional Depth Measurement Unit

### Installation

Mounts on crane, cable attaches to hammer

### Size

305 x 910 x 910 mm (12 x 35.8 x 35.8 in)

### Weight

73 kg (160 lbs.)

### Resolution

0.6 mm (.023 in)

Max range: 49 m (160 ft)



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## Optional Energy Switches (pair of proximity switches, available in 3 types)

**Installation:** Mounts on hammer

Functionality	Normally open	Normally open	Normally closed (for special applications)
Size (diameter x length)	18mm x 50mm	30mm x 50mm	30mm x 30mm
Weight:	114 g	205 g	182 g
Switching Frequency	200 Hz	650 Hz	200 Hz
Sensing Range	10 mm	10 mm	15 mm
Repeatability	.01 mm	.01 mm	.01 mm

## Transmitters

	For Optional Energy Switches:	For Optional Depth Measurement Unit:
Installation	mounts on hammer	mounts on depth sensor
Size	90mm X 125mm X 32mm	64mm X 98mm X 34mm
Weight	.54kg	.46kg
Data Transmission	via a standard radio protocol	
Frequency Range	2.402 ~ 2.480 GHz	
Max Range	100m	
Electronic	Low power 16-bit processor with 12-bit analog to digital converter and 12 bit digital to analog converter	
Power	Built-in rechargeable battery w/8-hour min duration	supplied by +12V to +24V crane battery
Temperature range	0 to 40°C operating; -10 to 65°C storage	