



Pile Dynamics, Inc.  
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## Technical Specifications

# E-Saximeter (ESAX)

## 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 Magnetoresistive 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	