Quality Assurance for Deep Foundations



E-Saximeter (ESAX) Specifications

January 2012

Main Unit

Size: 100mm X 190mm X 50mm

Weight: 0.54kg

Temperature range: 10 to 40°C operating -10 to 65°C storage Power: Built-in rechargeable battery with 16-hour minimum duration Display: LCD, 4 lines X 16 characters, viewing area 62mm X 26mm

Keypad: Large Key (1.27mm²), 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 Magnetoresitive RAM

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: 305mm X910mm X 910mm

Weight: 73kg Resolution: 0.6mm Max range: 49m

Quality Assurance for Deep Foundations



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

Installation: mounts on hammer

Functionality	Normally	Normally	Normally
	open	open	closed (for
			special
			applications)
Size (diameter x length)	18mm x	30mm x	30mm x
	50mm	50mm	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	For Optional Depth		
	Switches:	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	via a standard	via a standard radio protocol		
Transmission				
Frequency	2.402 ~ 2.	2.402 ~ 2.480 GHz		
Range				
Max Range	100	100m		
Electronic	Low power 16-bit processor with 1	Low power 16-bit processor with 12-bit analog to digital converter		
	and 12 bit digital to analog convert	and 12 bit digital to analog converter		
Power	Built-in rechargeable battery	supplied by +12V to		
	w/8-hour min duration	+24V crane battery		
Temperature	0 to 40°C operating;	0 to 40°C operating; -10 to 65°C storage		
range				