



SMT-200 Geophone Tester

- Low-drive impedance test locates sticky elements
- Constant on-screen monitor of battery status
- Self-diagnostic software included
- Includes software necessary for the optional R.F.I.D. Tag Reader
- True portability with this hand-held, battery-powered, self-contained geophone tester
- User-selectable test sequence measures all major geophone performance parameters
- Test record storage for later download to PC via RS-232 link, allowing string performance tracking
- Menu-driven software provides full, user-programmable functionality
- Geophone specification library for simple tester reconfiguration
- Easy software upgrade via RS-232 link
- Exchangeable battery packs



The advanced technology SMT-200 Geophone Tester is small enough to fit in one hand and provides on-the-line and base camp testing of geophone strings or individual elements to manufacturer's specifications.

Specifications

INPUT/OUTPUT, INC.

Measurement Capability	SMT-200 Capabilities are measured at +20°C
Natural Frequency	
Range	1 Hz to 100 Hz
Accuracy	8 Hz $\pm 0.5\%$ to 14 Hz $\pm 0.5\%$ of measured value or ± 0.05 Hz whichever is greater, outside this window $\pm 2\%$ of measured value
Display resolution	0.01 Hz
Coil Resistance	
Range	20 Ω to 9,999 Ω
Accuracy	$\pm 1\%$ or ± 1 Ω whichever is greater
Display resolution	1 Ω (0.1 Ω when measured value less than 100 Ω)
Damping	
Range	0.100 to 0.850
Accuracy	$\pm 1\%$ of measured value
Display resolution	0.001
Sensitivity	
Range	0 V/m/s to 999 V/m/s (0 V/in/s to 25.37 V/in/s)
Accuracy	$\pm 2\%$ (calculated from other measured values)
Display resolution	0.1 V/m/s (0.003 V/in/s)
Harmonic Distortion	
Range	0% to 20%
Accuracy	$\pm 10\%$ of measured value or $\pm 0.01\%$ distortion whichever is greater
Display resolution	0.01%
Impedance	
Range	20 Ω to 99,999 Ω
Accuracy	Not specified
Leakage Test	
Range	0.1 M Ω to 1,000 M Ω when measured at 5 V
Accuracy	$\pm 5\%$ of measured value after user-calibration
Physical Characteristics	
Dimensions	Approximately 270 mm x 110 mm x 60 mm (10.63 in x 4.33 in x 2.36 in)
Weight	Approximately 1.5 kg (3.30 lb)
Environmental Specifications	
Operating temperature range	-20°C to +60°C (-4°F to +140°F)
Storage temperature range	-40°C to +70°C (-40°F to +158°F)
Limited Warranty Period	180 days

Ordering Information

SMT-200	P/N SMT-200 <i>Please, specify U.S. or European mains connector.</i>
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United States – Stafford, TX
Input/Output, Inc.
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