



## SMT-40 Geophone String Checker

- **Water resistant and rugged construction; easily portable for all line conditions**
- **Fully temperature compensated ensuring accurate measurements**
- **Backlit LCD display with bar-graph with percentage deviation and nominal / actual values displayed**
- **Basic visual fault interpretation; Open circuit, short circuit, tilted geophones etc.**
- **Software programming of string configurations allows for easy reconfiguration to different geophone and string types**
- **Low amplitude sine-wave drive can detect dragging coils**
- **Continuous visual indication of battery condition**
- **Loud audible indicator**

The SMT-40 geophone string checker is a hand-held unit, allowing a quick and efficient method of checking geophone string resistance, impedance, and polarity. String parameters are pre-configured by software and any deviation from the nominal values are displayed on a liquid crystal display (LCD) panel meter. The measurement is temperature compensated and has an audible tone for geophone polarity warning. Using the SMT-40 on the line, supported by the SMT-400 Geophone Tester to analyze any faults detected, ensures complete quality control of geophone strings.

### SMT-40

<b>Resistance Check detects</b>	Open-circuit coils Open-circuit shunt resistors Open-circuit strings Short-circuit geophones Open-circuit geophones Short-circuit strings
<b>Impedance Check detects</b>	Dragging coils Sticking coils Significant frequency, sensitivity, damping, and distortion problems Incorrectly-planted geophones
<b>Polarity Test detects</b>	Reversed-polarity strings or geophone elements
<b>Battery Type</b>	4 x AA (Duracell Ultra or equivalent alkaline batteries)
<b>Battery Life</b>	15 hours continuous (equates to >2500 tests)

### Physical Characteristics

(in a leather carry-case)	
Dimensions	Length 185mm, Width 90mm, Depth 50mm (7.28" x 3.54" x 1.96")
Weight	900 g (1.98 lb) excluding leather carry case
Connector	MIL-C-26482 10-06 pin (socket required for interface cable)

### Environmental Specifications

Operating temperature range	-10 to +50°C (+14 to +122°F)
Storage temperature range	-20 to +40°C (-4 to +104°F)
Humidity	0 – 80% RH
Housing standard	IP-66

**Limited Warranty Period** 180 days

### SMT-40 Geophone String Checker

P/N NLSMT-40  
Please, provide information regarding geophone type, string configuration and string connector type at time of ordering. This information is necessary for SM-40 programming and interface connection.