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

**Resistance Check** detects
- Open-circuit coils
- Open-circuit shunt resistors
- Open-circuit strings
- Short-circuit geophones
- Short-circuit strings

**Impedance Check** detects
- Dragging coils
- Sticking coils
- Significant frequency, sensitivity, damping, and distortion problems
- Incorrectly-planted geophones

**Polarity Test** detects
- Reversed-polarity strings
- or geophone elements

**Battery Type**
- 4 x AA (Duracell Ultra or equivalent alkaline batteries)

**Battery Life**
- 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 (.198 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.