

ETM

Technical Summary

Sensors

Input ranges can be configured by the user in T-Link.

Resolution is 12 bits for all ranges.

Trigger threshold can be set up to full range.

The high-frequency roll-off of the sensors (unless otherwise specified) is at 30% of the sampling rate.

Waveforms

Record modes	Single shot (Threshold, Auto), continuous logging
Sample rates	From 20 to 40000 samples per second (depending on number of channels, and results)
Record time	128 to 131072 points (0.128 to 131.072 seconds at 1000 sps)
Pre-trigger	0% – 100% in 5% steps
Memory	502 × 4s waveforms at 1000 samples per second, with 1093 summaries 65535 summaries in single shot mode (no waveforms) or continuous logging mode

User Interface

Display	LCD 20 characters × 2 lines, with backlight Armed LED on Sensor Panel Wire Break Intact LED on Sensor Panel
Keypad	6 keys + power switch
Connectors – top panel	Mini USB for PC communications
Connectors – sensors	MS12–10 for triaxial geophone MS10-7 for microphone or other sensor
Connectors – other	MX-3 for Mains Charger, Solar Panel or External Battery MX-4 for Alarm and Button BNC for Antenna
Connectors – power	IEC320-C8 on international mains charger
Options	Wireless Modem Alarm Light External Battery Solar Panel Weatherproof Mains Charger

Power Supply

Batteries	Internal rechargeable NiMH 13 A·h @ 9.6 V Up to 720 hours continuous run time (depending on Settings)
Charger	International voltage (90 V to 260 V, 50 Hz to 60 Hz) IEC320-C8 cable
Recharge Time	Approx. 6 hours

Physical

Temperature	Operating 0°C to 70°C (32°F to 158°F) Display 0°C to 50°C (32°F to 122°F)
Dimensions	490 mm × 430 mm × 230 mm
Weight	8.8 kg
Environmental	Sealed to IP65 when geophone and microphone connected, or caps in place
EMC	Emissions to CFR47 FCC Part 15B, Class B Verification Emissions to CISPR:2005, Class B

CE Declaration of Conformity:

Texcel Pty Ltd declares that the ETM meets requirements of EMC Directive 2004/108/EC for Electromagnetic Compatibility and Low Voltage Directive 2006/95/EC for Product Safety.

EMC DIRECTIVE

- EN 61326-1:2006
- EMC requirements for Electrical Equipment for Measurement, Control, and Laboratory use.

Electromagnetic Emissions

- EN 55011/A2:2002, Radiated and Conducted emissions (Class A)
- EN 61000-3-2:2000 Harmonic Emissions (Class A)
- EN 61000-3-3/A1:2001 Voltage Fluctuations and Flicker Emissions

Electromagnetic Immunity

- EN 61000-4-2/A2:2001 Electrostatic Discharge
- EN 61000-4-3:2002 Radiated Susceptibility
- EN 61000-4-4:2004 Burst
- EN 61000-4-5/A1:2001 Surges
- EN 61000-4-6/A1:2001 Conducted Susceptibility
- EN 61000-4-8/A1:2001 Power Frequency Magnetic Field
- EN 61000-4-11:2004 Voltage Dips and Short Interruptions