



High accurancy, 3-axis digital accelerometer

Thanks to its extremely low noise, low power and wide frequency response the LTME family guarantees accurate and stable seismic measurements without the need for recalibration or maintenance during the lifecycle of the system. LTME-150 comes with a dynamic range >150dB and a broadband linear response from DC to 460Hz. Maximum full-scale range is ±15g. LTME-150 is housed in hard-coating aluminum case IP67, IP68 is available optionally. The ultra-low noise ($0.2\mu G\sqrt{Hz}$) makes the LTME-150 well suited for seismic health monitoring and seismic observation, satisfying all the requirements for strong motion event monitoring. In fact, even in the presence of light tremors, the data output is completely superimposable on the mechanical force balance.

LTME-150 MEMS ACCELEROMETER

(EV FEATURES

MEMS TECNOLOGY

DYNAMIC RANGE >150 dB

FREQUENCY RANGE DC \div 460 HZ

FULL SCALE RANGES AVAILABLE $\pm 15g$ different full-scale are software selectable

HIGH ACCURACY AND DURABILITY

LOW SELF-NOISE / LOW POWER CONSUMPTION

GOOD THERMAL STABILITY

POWER SUPPLY FROM 5V UP TO 36V



TYPOLOGY Triaxial, Biaxial and Monoaxial	
TECHNOLOGY MEMS	
FULL-SCALE RANGES ±15g, different full-scale are software selectable	
SCALE FACTOR 0.06 µG/LSB	
CALIBRATION 1.5% (scale factor deviation)	
NOISE IN BAND 0.2 μ G \sqrt{Hz} , rms (0.7 max)	
NOISE PSD @1Hz 0.1µG√Hz	
@10s 0.5µG√Hz	
DYNAMIC RANGE (dB) >150dB	
BANDWIDTH 0÷460 Hz, -3 dB	NCI
RESOLUTION >24 bit	ZM/
OUTPUT DATA RATE 50 to 1000 sps	PERFORMANCE
BUILT IN LPF CUT OFF 9 to 460 Hz	E
NON-LINEARITY % FS ±0.03	
BIAS TEMPERATURE ERROR (mg/°C max) ± 2mG	
SYNCHRONIZATION Sync pin driven by host	

CONNECTORS 62GB-12E12-10SN, 10-pin ACCELERATION OUTPUT Digital (UART/RS232/RS422)

POWER SUPPLY 5÷36Vdc

POWER CONSUMPTION <100mW (<10mA@12V) PROTECTION Reverse-voltage, overvoltage and surge protected **GROUNDING** Predrilled hole for M5 x 6 grounding lug screw

OPERATING TEMPERATURE -25°C to +60°C

HOUSING Aluminum, anodized hard coating LEVELING Integrated bubble level and adjustable locking leveling screws

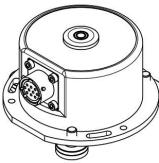
PROTECTION GRADE IP67

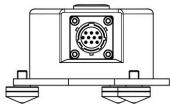
OD 96 mm

HEIGHT 50 mm

WEIGHT < 400 g

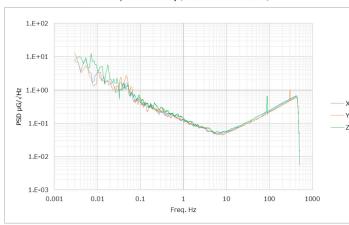
INSTALLATION:

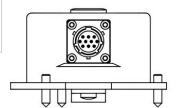




Installation with adjustable feet

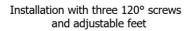
Installation with adjustable feet

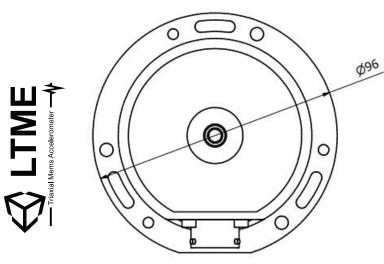




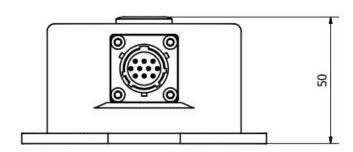
Installation with single central bolt

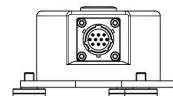
and adjustable feet



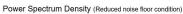


LUNITEK I 100% ITALIAN PRODUCT











INTERFACE

POWER SUPPLY

PHVSICAL