



NTX® srl

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Seismograph **SEISMOGRAPH MSG II**

*The most innovative seismic and
overpressure waves **MONITORING UNIT**
available on the market*

Main features:

- Sample rates up to 16k samples per second
- USB connectivity for downloading events to PC
- Thumb Drive with event synchronization
- Standard event memory storage for up to 65k events
- Selftrigger (waveform), Bar Graph and Combo modes standard
- Smart Sensor technology included
- All results displayed on one LCD screen with back light
- Included software for automatic downloading & emailing of data (modem required).
- Unique option to name and save setup information
- No wait time between events so consecutive events are not missed
- Quick and easy setup procedures
- Complies with ISBE seismograph standards for 2017
- 2-year warranty on parts and labor



Working

The transducers (geophone and microphone), after being positioned, are connected to the acquisition control unit by means of aluminum pins.

After switching on the control unit, simply log in to the registration page.

The recording of an event is performed only when the measured values exceed a predetermined alarm threshold (called trigger), keeping the measurement also for 0.5 s or 1.0 s preceding the trigger moment.

Once the recording is completed, the instrument checks the transducers to verify correct operation and positioning, then continues the measurement by resetting for the subsequent recording (reset time 50 ms).

Certificazioni

Certificato CE di conformità per la legislazione europea nel settore delle apparecchiature elettriche.

Certificato di calibrazione del microfono e del geofono.

Le calibrazioni annuali della stazione di monitoraggio MSG vengono eseguite nel laboratorio NTX autorizzato di Lonato. I tempi di calibrazione sono circa 3/4 h.



SPECIFICHE TECNICHE

SEISMIC	
Seismic Monitoring (with Standard Triaxial Geophone)	0 – 10 in/s (0-254 mm/s) - Standard
Range	0.00003 in/s (0.00078 mm/s) @ 16-bit accuracy
Accuracy	+/- 3%
Transducer Density	108 lbs/ft ³
Frequency Response	2 – 400 Hz (1 Hz optional)
SOUND	
Weighting Scales	Linear (flat)
Linear Range	92-148dB
Linear Resolution	0.00015625mb@ 16-bit accuracy
Linear Accuracy	+/- 1 dB or +/- 10 % whichever is greater
Linear Frequency Response	2 –400 Hz
WAVEFORM RECORDED DATA	
Record Modes	Waveform, Combo & Manual
Seismic Trigger Range	0.02 - 10.24 in/s (0.508 - 260.096mm/s) X2 sensor low sensitivity
Sound Trigger Range	92 - 148dB, no trigger (other levels optional)
Sample Rate	1024 – 4096 Standard, Higher rates optional
Record Time	Up to 895 seconds
Cycle Time	No wait time between events
Storage Capacity	65k one second events standard @ 1024 samples/s
BAR GRAPH DATA	
Record Modes	Bar Graph (Histogram)
LCD Readings	Real Time update 1-60 seconds selectable
Bar Recording Interval	1, 10, 20, 30, 40, 50, 60 seconds
Summary Interval	5, 15, 30 minutes, 1, 2, 4, 8,12, 24 hours
Summary Data	Peak R,T,V + Sound & Frequencies for each choice of vector sum and displacement
PHYSICAL SPECIFICATIONS	
Dimensioni	6 x 4.25 x 3 in/ (152 x 108 x 76 mm)
Peso	4.1 lbs. (1.9 kgs)
Batterie	6 Volt, gel type rechargeable, Up to 7 days duration per recharge (monitor mode)
Display – LCD	8 lines x 21 characters with backlight
Interfaccia PC	RS-232 & additional 15 pin auxiliary connector / USB
Auxiliary Inputs and Outputs	External trigger & remote alarm
Temperature di operazione	0 to 120° F (-8 to 50° C)
Comunicazioni in remoto	Full function RS-232 Port, compatible with telephone, GSM, Satellite, RF
Garanzia	2 Years, Parts & Labor