

Minimate Pro™ Sound Level Microphone (Part No. 720A5101)

Introduction

The Minimate Pro Sound Level Microphone can perform unattended monitoring of noise, such as building activities, construction, traffic, and mining operations. Noise and vibration monitoring are combined on the same unit, making the Minimate Pro4™ or Minimate Pro6™ cost effective and flexible monitors for these applications.

The Minimate Pro Sound Level Microphone meets the requirements for IEC 61672 Class 1, which includes A and C weighted specifications. It has a measuring range from 30 to 140 dB with a Fast or Slow response. With Blastware® Advanced Module, it is also capable of recording the unfiltered response in one of two ranges, +/- 25 Pa or +/- 100 Pa. The record mode can be set to Manual trigger, Waveform (records up to 9000 seconds once a preset trigger level has been exceeded), Histogram (with intervals from 2 seconds to 1 hour) or Histogram Combo™ (Compliance mode only, this combines histogram and waveform monitoring at the same time).

In Advanced Mode, it can also trigger and record unfiltered sound clips up to 90 seconds long. The resulting data file can then be played back with the Blastware Advanced module to help determine the source, or it can be further processed, including third octave frequency analysis.

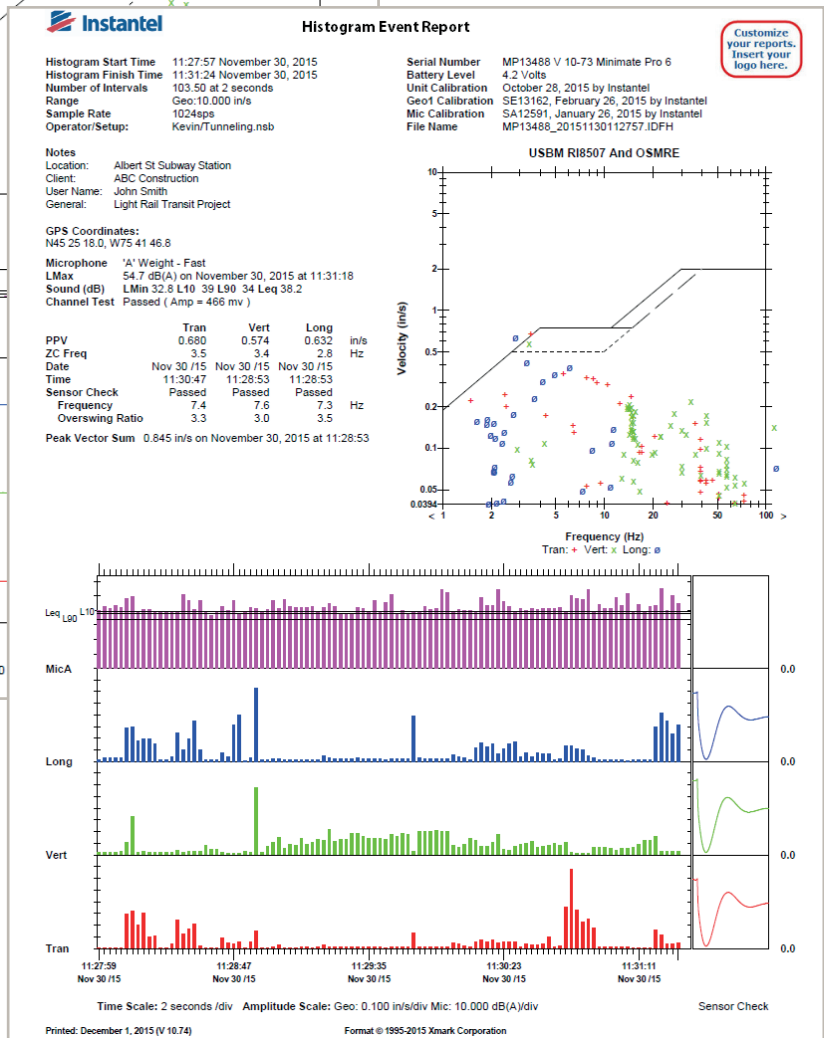
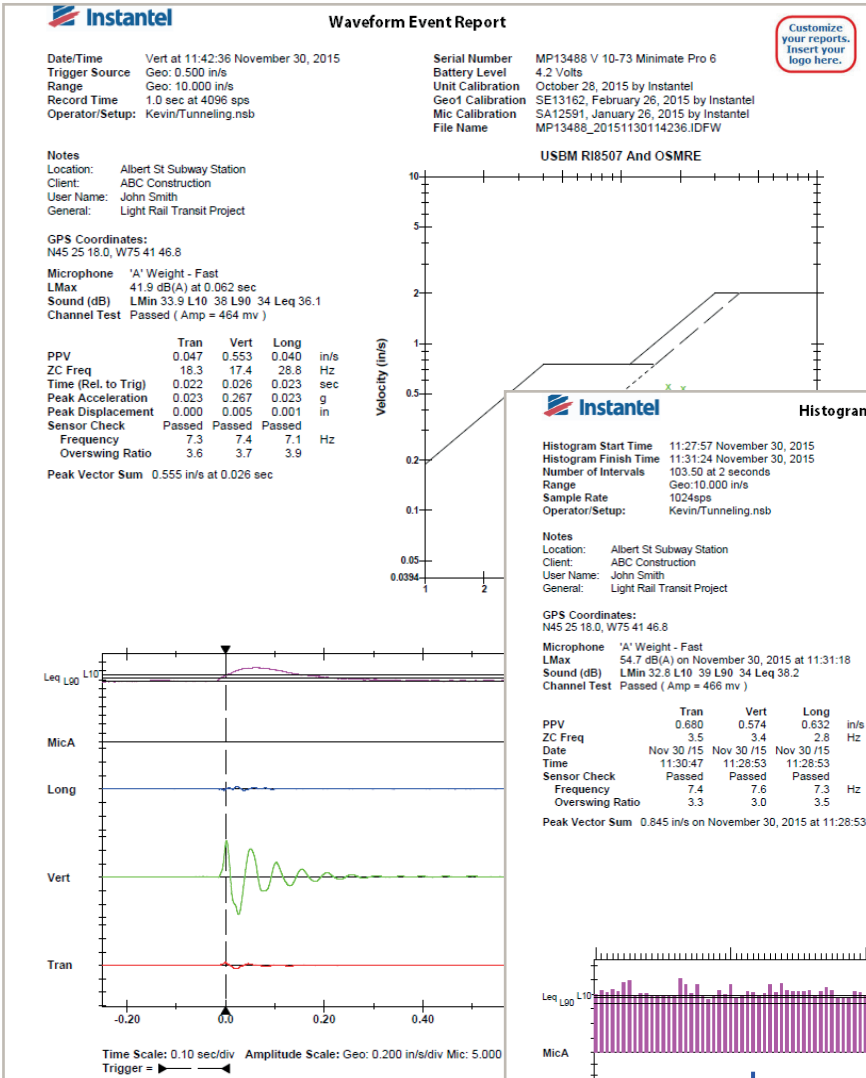
The microphone connects directly to the microphone port of the Minimate Pro4 or Minimate Pro6. For additional flexibility, the Minimate Pro6 is capable of monitoring two Sound Level Microphones at the same time using the Blastware Advanced mode. These microphones can be connected directly to the unit or using an extension cable up to 75 meters (250 feet) long. The microphone ships with a microphone stand and windscreen.



Sound Level Microphone

Specifications

	Compliance Mode	Advanced Mode (Optional)
Weighting	A-Weight and C-Weight	Unfiltered
Frequency Range	Up to 20 kHz	Up to 20 kHz
Response	Fast 125 ms, Slow 1 s	N/A
Sensitivity	N/A	0.0038 V/Pa (Normal), 0.12 V/Pa (Sensitive)
Resolution	0.05 dB (display limit 0.1 dB)	0.03 Pa (Normal), 0.89 mPa (Sensitive)
Range	Automatic	+/- 100 Pa (Normal), +/- 25 Pa (Sensitive)
Trigger Levels	33 dB - 140 dB	0.448 - 100 Pa (Normal), 0.014 Pa - 25
Temperature Range	-10° to 50°C (14° to 122°F)	-10° to 50°C (14° to 122°F)
Sample Rate	1024 sps Recommended	64 Ksps Recommended
Cable Length	6 ft. (2 m)	6 ft. (2 m)
Maximum Amplitude	160 dB	160 dB



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