Noise Watch Monitoring Station

Soft dB Monitoring Services

Noise Watch Monitoring Station Is Compact, **Rugged and Packed with Powerful Features**

Professional Grade Acoustical Measurements:

- Complies to IEC 61672/ANSI S1.4 Class 1
- Leg, Lmax, Lmin, Lpeak, and SEL in A, C, and Z weightings •
- 7 Percentiles (LN%) for selected weighting (A, C or Z) .
- 1/1 Octave, 1/3 Octave and FFT •

Embedded Power Solution:

- Large battery providing 5-days run-time •
- Optional solar kit providing unlimited power •
- Optional main power-supply for permanent installations •

Impressive Data Storage Capacity:

- All parameters recorded (Leq, Lmax, Lmin, Lpeak, SEL, LN%, LAFTM5, 1/1 Oct., 1/3 Oct. and FFT)
- Memory buffer holding up to 80,000 records and up to 10 minutes of audio recording
- Auto-store period from 1s to 1h, aligned on clock
- Soft dB Monitoring Service allows for unlimited record storage

Compatible with Soft dB Monitoring Solution:





1040, Belvedere Ave. Suite 215 Quebec, QC G1S 3G3 Canada

Phone 1 (418) 686-0993 Toll Free 1 (866) 686-0993



Simple Deployment

Management Software

The Noise Watch Utility Software is a simple tool to setup the Noise Watch Station.

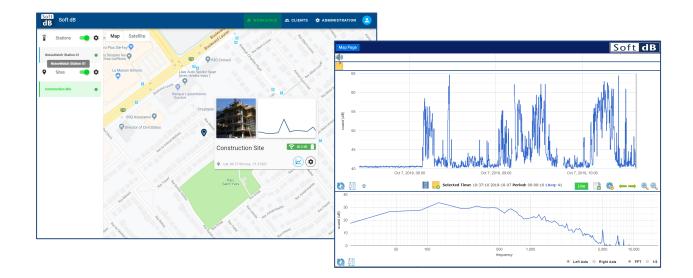
- Start/Stop the measurement;
- Change measurement setup (Input Range, Duration, FFT Span, etc.);
- Manage Web Service parameters (Records upload, Status upload, etc.);
- Manage records buffer (load records, clear buffer, etc.);
- View 4G modules status;
- View GPS module status;
- View battery status;
- View embedded calibration certificate.

MoiseWatch Utility 1.6.2 X
♣ 42.0 dBA Stop
PM0119051502 Up since 00d, 00h, 03m
贷 Setup
() Idle
TELUS, LTE, -73dBm (20%), 29%
🖉 No Fix
2019-10-04 13:20:39
100.0%
Certificate

Web-Based Monitoring Platform

Soft dB Monitoring Platform is a self-service web application that brings significant value to both short and long-term unattended noise measurement campaigns:

- Manage all your monitoring stations (registration, GPS coordinates, Battery status, etc.);
- Set alerts for monitoring stations warnings (low battery, offline, etc.);
- Manage exceedance alerts (SMS an emails);
- Real-time records uploads;
- Secure data hosting;
- Manage period durations (10m, 1h, etc.);
- Assign Monitoring stations to measurement sites;
- Create client access pages for specific sites.





1040, Belvedere Ave. Suite 215 Quebec, QC G1S 3G3 Canada **Phone** 1 (418) 686-0993 **Toll Free** 1 (866) 686-0993

Technical Specifications

nd Level Meter		
	IEC 61672-1/ ANSI S1.4-1 (2013) Class 1,	
Standards	ANSI S1.43 (2007) Type 1,	
	IEC 60651 (1979), Amd.1(1993-02), Amd.2(2000-10) Type 1	
Averaging	Exponential and Linear	
Time Weightings	Slow or Fast	
Frequency Weightings	A, C and Z	
Sampling Rate	44.1 kHz	
Input Ranges	Low	High
Peak Maximum Level	100 dBZpk	110 dBZpk
Under-Range Level	25 dBA	31 dBA
Electrical Noise Level	15 dBA	23 dBA
Total Noise Level	24 dBA	28 dBA
Microphone Nominal Sensitivity	60 mV/Pa	
Microphone Technology	Electret Condenser	
Measured Metrics	Leq, Lmax, Lmin, Lpeak, SEL, LN% (1%, 2%, 5%, 8%, 10%, 50%, 90%, 95%, 99%)	
Resolution	0.1 dB	
ectrum		
Standards	IEC 61260-1/ ANSI S1.11-1 (2014) Class 1	
Averaging	Linear (Leq)	
1/1 Octave Spectrum	31.5 Hz to 8 kHz	
1/3 Octave Spectrum	20 Hz to 16 kHz	
FFT Spectrum	400 lines on 6 bandwidths from 17.2 kHz to 539 Hz	
ming		
Record Duration	1s to 1h	
Record Duration Resolution	1s	
Recording Mode	Continuous auto-store	
Align on Real-Time Clock	Yes	
ecording		
Memory Type	Looping Buffer (older records are overwritten)	
Recording Data	All Global Metrics (A, C and Z), LN% (A, C or Z), 1/1 Octave, 1/3 Octave, FFT (optional)	
Memory Capacity (No Audio)	Without FFT: 81,600 records, With FFT: 16,320 records	
Memory Capacity (With Audio)	Without FFT: 40,800 records, With FFT: 8,160 records	
udio Events		
Resolution	11.025kHz, 16-bit	
Event Trigger	User defined from 40 to 90 dB (A, C or Z - SPL Slow or Fast)	
Event Pre-Trig Duration	User defined from 0s to 3s	
Event Total Duration	User defined from 5s to 30s	
Memory Capacity for Audio	11m50s	

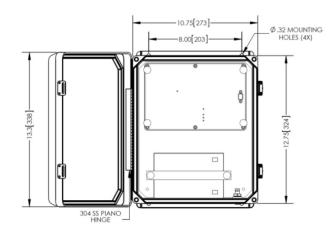


1040, Belvedere Ave. Suite 215 Quebec, QC G1S 3G3 Canada **Phone** 1 (418) 686-0993 **Toll Free** 1 (866) 686-0993

Technical Specifications (cont.)

Monitoring		
Cellular	4G LTE with HSPA+ fallback, embedded antennas	
GPS	56 Channels GPS, SBAS, QZSS, On-Board RTC	
Record Upload	Soft dB Monitoring Web Service	
Output		
Dynamic Range	0dB to 30dB Gain – Max ±1.5Vpk	
Connector	1/8″ Jack Mono	
Environmental		
Operating Temperature	-20°C to 40°C	
Storage Temperature	-30°C to 50°C	
Certified to	NEMA Type 4 – IP66	
Power		
Power	1.1W	
Battery	168 Wh (12V-14Ah)	
Battery Life (without solar or power-supply)	132h (5days, 12h)	
Physical		
Height	324 mm (12 ¾″)	
Width	273 mm (10 ¾″)	
Depth	145 mm (6 5/8″)	
Weight	8.9kg (19.6lbs)	
Accessories		
Windscreen	All Weather Protections	
BNC Cable	1.2m (4′)	
USB Cable	0.9m (3') A to Micro-B	
Charger Pack	External Power-Supply, (24VDC, 2A). Uses solar panel connector to feed 24V DC	
Calibration Certificate	Tested in accordance with procedures from IEC 61672-3 (2013)	
Main Power-Supply (Optional)	Internal Power-Supply, (24VDC, 2A). Replaces solar panel connector with main cable pass-through	
Solar Panel (Optional)	30W solar panel (345 x 605mm / 13.5 x 23.8")	
Pole-Mount Bracket (Optional)	Accepts pipe straps for pole diameter 3cm to 30cm (1 ¼" to 11")	







1040, Belvedere Ave. Suite 215 Quebec, QC G1S 3G3 Canada **Phone** 1 (418) 686-0993 **Toll Free** 1 (866) 686-0993