

SOUND LEVEL METERS TYPE 1



ARW-1308 For order **220122778**

Phonometer, Instantaneous, Integrator and Analyzer in Frequency class 1

Suitable for noise pollution checks in workplaces "D.L. 81/2008, UNI 9432/2008 and European Directive 2003/10/CE."

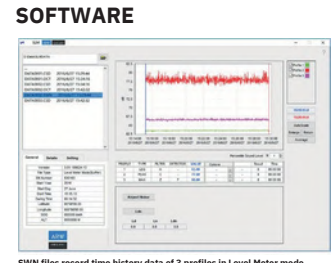
The new ARW-1308 sound level meter represents the optimal and extremely competitive solution for measuring acoustic impact in both industrial and environmental fields. It incorporates a single chip Dual-core (DSP + ARM) Microprocessor with FPU to guarantee high calculation speed, precision and stability. This instrument is able to measure the Instantaneous (SPL), Integrated (LEQ) acoustic pressure and to carry out the frequency analysis in Octave band (1/1) and 1/3 of octave (Optional). All measurement parameters can be saved and transferred to the PC for processing thanks to the supplied software.



- Complies with IEC61672-1: 2013, ANSI S1.4-1983 and ANSI S1.43-1997
- Optimized 1/1-octave and 1/3-octave bands according to IEC61260-1:2014 and ANSI S1.11-2004
- Measurement Range, Linearity Range: 22dBA ~ 136dBA
- Single Interval measurement dynamics to cover a 123dB range
- Frequency weighting: A / B / C / Z.
- Time Weightings: fast "Fast" / slow "Slow" / Impulsive "Impulse"
- Analysis filters 1/3 of octave 10Hz to 20kHz (optional), suitable for some measurements of environmental acoustic impact (DL447)
- 3 Profiles and 14 defined measurement parameters are calculated in parallel with the different selected frequency weighting
- Acoustic Parameters: Calculate SPL, LEQ, Max, Min, Peak, SD, SEL
- The display of LN statistics and time history (10 percentile levels)
- Measurement time settable by the user from 1 sec. up to a maximum of 24 hours
- TRACK function with graphical representation of a measurement
- Trigger Mode: analogue signal for switching on or off the device with 3.5 mm connector
- Equipped with rear stand mount, thread, 1/4"
- High speed ARM-Core microprocessor with FPU (Float Point Unit) to obtain a wide frequency response, wide dynamic range and low noise
- Internal memory 4G MicroSD (TF card)
- RS-23 remote control

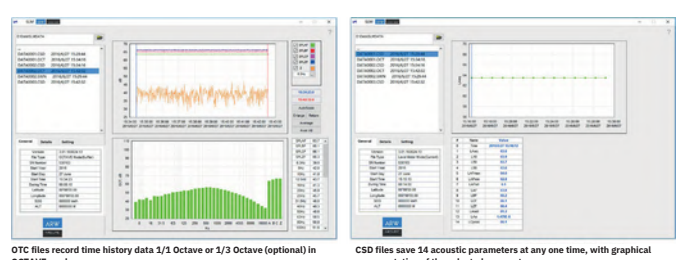


OPTIONAL ACCESSORIES	
Code:	Description
221120372	Acoustic calibrator cl 1 (94dB/114dB, 1KHz) ACCREDIA certificate
221121722	1/3 Octave Analysis Filters 10Hz to 20kHz



SWN files record time history data of 3 profiles in Level Meter mode

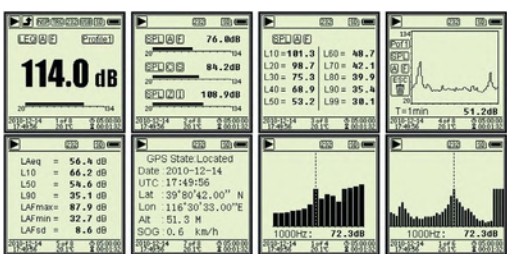
***Discount differentiated for resellers, contact the sales office. VAT excluded**



OTC files record time history data 1/1 Octave or 1/3 Octave (optional) in OCTAVE mode

CSD files save 14 acoustic parameters at any one time, with graphical representation of the selected parameter

DISPLAY



APPLICATIONS



TECHNICAL SPECIFICATIONS

Reference standard	GB/T 3785.1-2010, IEC 60651:1979, IEC 60804:2000 IEC 61672-1:2013, ANSI S1.4-1983, ANSI S1.43-1997
Spectral analysis (Octave band)	average frequencies of a 1/1-octave filter: 31.5 Hz to 16 kHz GB/T 3241-2010, IEC 61260-1:2014 ANSI S1.11-2004
Microphone	MPA231T: prepolarized measuring microphone 1/2", class 1: sensitivity: 50 mV/Pa frequency range: 10 Hz to 20 kHz
Microphone socket	TNC connector with ICCP power supply (4mA)
Integration time	integration time defined by the user in the range from 1 sec. at 24 hours. repetition time: infinite or from 1 to 9999
Protocol cycle	0.1 sec., 0.2 sec., 0.5 sec., from 1 sec. at 24 hours
Statistical acoustic parameters (percentile levels)	LXY(SPL), LXeq, LXYS, LXSEL, LXE, LXymax, LXymin, LXPeak, LXN. Where: "X" indicates the frequency correction: A, B, C, Z "Y" indicates the time constant; F, S, I and "N" indicates the statistical measurement: L1 to L99 from 1 to 99; 3 profiles and 14 user-defined measurements calculated in parallel with different frequency/time constant correction
Frequency weighting	parallel A, B, C, Z
Time constant	Fast, Slow, Impulse and Peak
Linearity field	22dB(A) to 136dB(A)
Dynamic field	123dB (11dB(A) to 134dB(A))
Peak-C field	45 dB(A) to 137 dB(A)
Electric input	The measurement meets the requirements of GB/T3785 and IEC 61672 maximum input voltage 5 Veff (7.07 V peak) preamplifier input impedance > 6 GΩ
Field setting	1 field covering the entire dynamic range
Resolution	24 bits
Sampling frequency	48 kHz(Sampling interval for LN: 20ms)
Time Profile	Screen with visualization of noise characteristic as a function of time. (three selectable profiles: measurement duration: 1 minute, 2 minutes, 10 minutes)
Display	160 × 160 backlit LCD with white light 14 levels of contrast, display update every 1 sec.
Mass memory	4 GB capacity microSD (TF) card
Final report	Through the VA-SLM Software program it is possible to read and analyze the data with the generation of reports based on the saved data
Data export	Direct connection to a PC in order to read the contents of the memory card (as a USB drive)
Output	AC voltage output (5 VEFF maximum, ±15 mA), DC voltage output (10 mV/dB, 15 mA maximum), RS-232 serial interface and USB slot (USB drive mode or modem mode)
Alarm	Index alarm threshold LED for user-defined alarm status display
Power supply	4 1.5 V alkaline batteries (LR6/AA/AM3), are sufficient for about 10 hours (depending on the battery) it is also possible to supply the operating power using a direct current source (7-14 V, 500 mA) and a USB slot (5 V, 1 A)
RTC	Integrated buffer battery was factory adjusted (calibrated) with an error < 26 sec. in 30 days (< 10 ppm, (25 ±16)°C). It guarantees the working continuity of the system clock even during the replacement of the main batteries
Menu language	English, Chinese, Portuguese, Spanish, German, French
Program update	Firmware update using the USB slot with connection to our Server
Ambient conditions	temperature: -10°C to 50°C humidity: 20-90%, relative humidity
Real time temperature	real-time temperature indication on the main screen
Dimensions	70 × 300 × 36 (L × A × P)
Supply kits	sound level meter instrument complete with amplifier CCP with a TNC connector and class 1 microphone Microphone windscreen microSD memory card with a capacity of 4 GB for saving data 9V/500mA power supply unit data management software downloadable directly from our website "www.arwmisure.it" USB cable for PC connection supplied in a sturdy carrying case
Weight	About 620 g with the 4 alkaline batteries
Acoustic calibrator	ARW2020, Class 1, 94dB/114dB, 1kHz

