



CRY2851 Sound Level Meter

Introduction

CRY2851 sound level meter is equipped with a high-performance processor and is specifically designed for measuring occupational, environmental, and product noise. While meeting the demands for accurate and reliable acoustic measurements, the device also supports functions such as frequency analysis, data recording, and wireless control and transmission. Optional modules for octave band and FFT analysis are available to meet advanced user needs. The design balances aesthetics and ergonomics, featuring a 4-inch high-definition capacitive touchscreen that provides a user experience that combines convenience and comfort. The instrument can store data via an SD card and supports data transmission and remote control through Ethernet/WiFi. It is also compatible with GPS positioning systems for accurate time and location tracking. CRY2851 sound level meter complies with the IEC 61672-1:2013 standards for Class 1, as well as the IEC 61260-1:2014 standards for Class 1 filters.

Features

- The dynamic range exceeds 120 dB, eliminating the need for manual range switching.
- Supports SD card storage, expandable beyond 64 GB.
- Supports USB, Ethernet, Bluetooth, and WiFi for various remote connectivity options.
- Supports connection to Bluetooth printers for printing test data at any time.
- Fully featured, supports optional apps for sound level meter, FFT analysis, spectrum analyzer, 1/1 octave band, 1/3 octave band, and monitoring.

Highlights

- **User-Friendly: Clear Interface and Intuitive Functions**
CRY2851 sound level meter features a 4-inch capacitive touch screen with a clear interface. Users can present measurement parameters through various display modes, making the measurement data more intuitive.
- **Versatile Optional Features**
CRY2851 sound level meter supports integral measurement functionality, statistical analysis, 1/1 octave band analysis, 1/3 octave band analysis, monitoring, FFT analysis, recording and storage, and much more.
- **Extensive Interface Options**
CRY2851 sound level meter supports Bluetooth, WiFi, USB and Ethernet, allowing users to transfer data through these interfaces. The device also supports GPS for location tracking.
- **Support PC Software**
CRY2851 sound level meter comes with advanced analysis software, enabling connectivity via Ethernet or WiFi. This feature allows for remote control of the device as well as the ability to export reports seamlessly.
- **Expandable Outdoor Monitoring**
CRY2851 sound level meter offers an optional outdoor protection kit, enabling extended outdoor noise monitoring.

Technical Specifications

Specifications

Microphone	CRY333 Free-field 1/2" Microphone
Frequency Range	3.15 Hz - 20k Hz (± 2 dB)
Sensitivity	50 mV/Pa (-26 dB re 1 V/Pa ± 2 dB)
Standards	IEC 61672-1: 2013 Class 1 IEC 61260-1: 2014 Class 1
Measurement Range	21-143 dB(A)
Self-Generated Noise	≤ 16 dBA
Frequency-Weighting	A, C, Z
Time-Weighting	F, S, I
Measurement Functions	Integration Measurement, Statistical Analysis, 1/1 OCT, 1/3 OCT, FFT Analysis
Measuring Parameter	Lp, Leq,t, Lpeak, Leq,T, Lmax, Lmin, SEL, LN(n=5, 10, 50, 90, 95), SD, E
Optional Filters	1/1 OCT Center Frequencies: 16 Hz ~ 16 kHz 1/3 OCT Center Frequencies: 10 Hz ~ 20 kHz
Interface	USB-C, WiFi, BT, Ethernet

Power Supply

Battery Capacity	6600 mAh (typical)
Charging Time	Fully charged at room temperature in just 3.5 hours
Charging Interface	USB-C
Charger Output Voltage	5V DC
Charger Output Current	> 1.5A

Reference Environment

Reference Sound Level	94 dB @ 1k Hz / 114 dB @ 1k Hz
Calibration	Recommended to use a Class 1 sound level calibrator
Operating Conditions	-20°C to +60°C Relative Humidity $\leq 90\%$ Pressure: 65k Pa - 108k Pa
Shock	25 g, IEC 60068-2-27

Appearance and Display

Dimensions	L × W × H = 260 × 90 × 40 mm
Weight	460 g
Control Method	Touchscreen / Button

Ordering Information

Name	Model	Description
Sound Level Meter	CRY2851	Class 1 Sound Level Meter
Outdoor Protection Device	NA41	IP65 Rated Wind and Rain Shield
Outdoor Protection Device	NA43	IP65 Rated Wind and Rain Shield with Electrostatic Excitation Device
Calibrator	CRY563A	Class 1 Sound Calibrator
Extension Cable	BL2121	5m Extension Cable
Electrostatic Excitation Power Supply	CRY585	Amplify Electrostatic Excitation Signals