CRY2301 Noise Sensor Product Brochure

CRY2301 noise sensor is a new type of industrial-grade acoustic sensor, which can accomplish real-time noise time domain analysis and frequency domain analysis with our real-time spectrum analysis software. Product performance accord with the performance requirements of GB/T3785 Type 1 and IEC 61672 Level 1.

CRY2301 integrates measuring microphone, preamplifier, data acquisition, data communication into compact structure. And it supports an optional one-inch high-sensitivity microphone which can be used for extremely low sound pressure test, with excellent performance.

CRY2301 uses the USB Interface for data communication and power supply. It is a composition USB device compound with USB Audio device and HID device and compatible with 32-bit / 64-bit Windows7/Windows10 system.

The real-time spectrum analysis software of CRY2301 can easily obtain time domain and frequency domain measurement data. Real-time spectrum analysis software supports frequency weighting and time weighting, which can be used for the noise statistical analysis, Otave analysis, FFT analysis and other acoustic analysis.

Acoustic analysis function

- Time Domain Noise Analysis
  Support the time domain acoustic pressure level curve display, the time domain waveform display, commonly used time domain sound pressure level data calculation, etc.
  Support Lp, Lmax, Lpeak, Leq test.
- Octave Analysis
  Support 1/1, 1/3, 1/6, 1/12, 1/24 Oct analysis.
- FFT Spectrum Analysis

  Calculate the total frequency value of a specified frequency range

Typical Applications

- Acoustic analysis of quality inspection of auto parts
- Acoustic analysis of household appliances
- Environmental noise analysis
- Noise condition monitoring of large equipment

Technical parameters of hardware and software products	
Applicable standards	IEC61672 Level 1、GB/T3785 Type 1
Measuring range	25~130dBA
Dynamic range	≥110dB
AD sample rate	48kHz
Detection method	Full Digital
Local noise (electrical signal)	22dB(A)、23dB(C)、27dB(Z)
Measuring Frequency range	10Hz~20kHz
Frequency weighting	A、C、Z
Time weighting	F、S
Measuring parameters	Lp、Leq、Lmin、Lmax
Octave analysis	Oct(1/1 、1/3 、1/6 、1/12、1/24)
Spectrum analysis	FFT Analysis
Supply voltage	USB 5V Power supply
Sensor size	Φ24.5mm×138mm
Weight	115g
Working conditions	-20~+50℃, Relative humidity≤90% No condensation
Operating environment	Windows7/Window10 32bit or 64bit