



CRY2831

CRY2833  
CRY2834

# CRY2830 Series Sound Level Meters

## Introduction

Sound level meters are specifically designed to monitor sound levels across various scenarios, meeting Class 1 and Class 2 accuracy requirements according to IEC 61672-1:2013. To cater to diverse customer needs, CRY SOUND meters offer a range of functional options, including integrating measurements, statistical analysis, 1/1 octave band analysis, 1/3 octave band analysis, and sound exposure measurement. These features ensure adaptability for different monitoring requirements, enabling precise and reliable sound and noise monitoring capabilities. They are suitable for applications such as automatic environmental noise monitoring, traffic noise, online/digital surveillance of noise pollution sources, occupational health measurement, and airport noise monitoring.

## Applications



- **Product Development**  
Test and certify the noise levels of products and ensure quality control.



- **Environmental Protection**  
Monitor and reduce noise pollution in urban and industrial areas.



- **Occupational Safety**  
Ensure compliance with noise regulations by monitoring and controlling workplace noise levels.



- **Engineering and Construction**  
Evaluate the impact of noise generated by machinery and construction activities.

## Highlights

- **Versatile and Cost-Effective Product Range**

With feature-rich and comprehensive product offerings, the CRY2830 Series provides a variety of options. From standard to multi-functional models, users can choose the device that is best for their needs, applications, and budget.

- **Comprehensive Features**

The CRY2830 Series supports integrating measurement functionality, statistical analysis, 1/1 octave band analysis, 1/3 octave band analysis, sound exposure measurement, monitoring, 24-hour measurement, recording and storage, and much more.

- **Versatile Connectivity Options**

The CRY2830 Series supports Bluetooth®/ WiFi or GPS, USB, and RS232, enabling remote control and data transmission through various methods.

- **Ergonomic Design and High-Definition Display**

The ergonomic design ensures enhanced operational comfort and satisfaction, complemented by an anti-drop wrist strap. CRY2833 and CRY2834 feature a 320 × 240 TFT color display that offers high-definition clarity and brightness, ensuring a clear and vivid visual experience.

## Technical Specifications

| Ptproduct            | CRY2831                  | CRY2834                                                                                                                            | CRY2833                                                                                                                            | CRY2833-L                                                                                                                          | CRY2833-H                                                                                                                          |
|----------------------|--------------------------|------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------|
| Type                 | Basic                    | Multi-functional                                                                                                                   | Multi-functional                                                                                                                   | Low SPL                                                                                                                            | High SPL                                                                                                                           |
| Standard             | IEC 61672-1:2013 Class 2 | IEC 61672-1:2013 Class 2                                                                                                           | IEC 61672-1:2013 Class 1                                                                                                           | /                                                                                                                                  | /                                                                                                                                  |
| Measurement Range    | 29 - 138 dB(A)           | 25 - 140 dB(A)                                                                                                                     | 25 - 140 dB(A)                                                                                                                     | 14 - 130 dB(A)                                                                                                                     | 44 - 160 dB(A)                                                                                                                     |
| Self-generated Noise | < 25 dB(A)               | < 23 dB(A)                                                                                                                         | < 17 dB(A)                                                                                                                         | < 12 dB(A)                                                                                                                         | < 35 dB(A)                                                                                                                         |
| Frequency Range      | 20 Hz - 12.5k Hz         | 20 Hz - 12.5k Hz                                                                                                                   | 10 Hz - 20k Hz                                                                                                                     | 10 Hz - 12k Hz                                                                                                                     | 10 Hz - 20k Hz                                                                                                                     |
| Frequency Weighting  | A, C, Z                  | A, C, Z                                                                                                                            | A, C, Z                                                                                                                            | A, C, Z                                                                                                                            | A, C, Z                                                                                                                            |
| Time Weighting       | F, S                     | F, S, I                                                                                                                            | F, S, I                                                                                                                            | F, S, I                                                                                                                            | F, S, I                                                                                                                            |
| Measuring Parameter  | Lp, Lmax                 | Lp, Leq,t, Lpeak, Leq,T, Lmax, Lmin, LN (n=5, 10, 50, 90, 95), SD                                                                  | Lp, Leq,t, Lpeak, Leq,T, Lmax, Lmin, LN (n=5, 10, 50, 90, 95), SD                                                                  | Lp, Leq,t, Lpeak, Leq,T, Lmax, Lmin, LN (n=5, 10, 50, 90, 95), SD                                                                  | Lp, Leq,t, Lpeak, Leq,T, Lmax, Lmin, LN (n=5, 10, 50, 90, 95), SD                                                                  |
| Measuring Functions  | Non-integrating          | Integrating, Statistical Analysis, 1/1 Oct (Optional), 1/3 Oct (Optional), Monitoring (Optional), Data Storage (32GB microSD card) | Integrating, Statistical Analysis, 1/1 Oct (Optional), 1/3 Oct (Optional), Monitoring (Optional), Data Storage (32GB microSD card) | Integrating, Statistical Analysis, 1/1 Oct (Optional), 1/3 Oct (Optional), Monitoring (Optional), Data Storage (32GB microSD card) | Integrating, Statistical Analysis, 1/1 Oct (Optional), 1/3 Oct (Optional), Monitoring (Optional), Data Storage (32GB microSD card) |
| Interface            | AC/DC                    | AC/DC, USB-C, RS232, BT/WiFi or GPS (select one)                                                                                   | AC/DC, USB-C, RS232, BT/WiFi or GPS (select one)                                                                                   | AC/DC, USB-C, RS232, BT/WiFi or GPS (select one)                                                                                   | AC/DC, USB-C, RS232, BT/WiFi or GPS (select one)                                                                                   |
| Display              | 128 × 64 Dot Matrix LCD  | 320 × 240 TFT Display                                                                                                              | 320 × 240 TFT Display                                                                                                              | 320 × 240 TFT Display                                                                                                              | 320 × 240 TFT Display                                                                                                              |

## Accessory Ordering Information

| Name                      | Model   | Description                     |
|---------------------------|---------|---------------------------------|
| Outdoor Protection Device | NA41    | IP65 Rated Wind and Rain Shield |
| Calibrator                | CRY563A | Class 1 Sound Calibrator        |
| Extension Cable           | BL2121  | 5m Extension Cable              |