

## PRODUCT DATA

# Noise Partner for B&K 2245 and HBK 2255 Sound Level Meters

Simple broadband sound level measurements and analysis

*Combined with B&K 2245 or HBK 2255 Sound Level Meter, Noise Partner is a complete solution for basic broadband sound level measurements.*

*The Noise Partner app is available both as a mobile device app and a PC app. The mobile app provides wireless remote control of your sound level meter, as well as the ability to document your measurements with embedded photos, videos, text and voice commentary. The PC app provides the tools you need to download, view and report on your measurements.*



## Uses

- Basic, broadband sound measurements with B&K 2245 or HBK 2255 Sound Level Meters

## Features

### Mobile app

- Remote measurement control
- Real-time, interactive interface to sound level meter
- Embedded annotations: photos, video, voice commentary and text notes
- Simple, login-free project sharing via HBK's cloud storage
- Measurement and annotation viewing
- Instrument storage management

### PC app

- Simple, file-based data storage
- Measurement data import (USB or network connection)
- Measurement data in tabular and graphical formats
- Measurement annotation viewing and export
- Simple report generation in Microsoft® Word or PDF
- Ability to copy and paste graphs, tables and annotations
- Data export in Microsoft® Excel® format, with master file templates for user-defined reporting
- Simple, login-free project sharing via HBK's cloud storage

## The sound level meter

B&K 2245 and HBK 2255 are simple and easy-to-use class 1 sound level meters that are ergonomically designed. Their dust- and water-resistant bodies are rubberized for a secure grip.

Each sound level meter can be used as a stand-alone noise measurement device or with specially-created apps designed to streamline measurement, analysis and documentation. The licences installed on the sound level meter unlock functionality and enable connection to the apps.

The Noise Partner licence enables all the measurement capabilities you need for broadband sound level measurement and analysis using either B&K 2245 or HBK 2255.



## The mobile app

### Be in control

Intuitive touch controls allow you to set up the instrument and make measurements from a distance.

### Keep an eye on things

Real-time measurement views keep you in touch with your measurements and allow you to monitor your measurements and connection status remotely.

### Document your work

Embed photo, video, text and voice annotations in your measurements.

### Work as a team

Share projects using a simple, login-free cloud-sharing tool.

**Fig. 1** Control, view and annotate measurements directly from your mobile device



## The PC app

### Transfer and store data

All measurement data is stored on the sound level meter. Import measurement data to the PC app directly from the sound level meter or from a backup storage device. The sound level meter can be set up to transfer data automatically when it connects to the storage device, which can be a network-attached storage device or a USB key.

### View data

Upon import, view measurement data in graphical and tabular formats. View measurement locations on a map, and review the embedded annotations.

### Share data

Use the simple, login-free cloud-sharing tool to share a project with colleagues and stakeholders. The PC app is free to download so everyone will be able to view the project.

### Create reports

A report generation tool quickly generates basic reports in Microsoft Word or PDF. Alternatively, export data to Microsoft Excel with master files, which allows you to create your own custom report template and to include your own calculations on exported data.

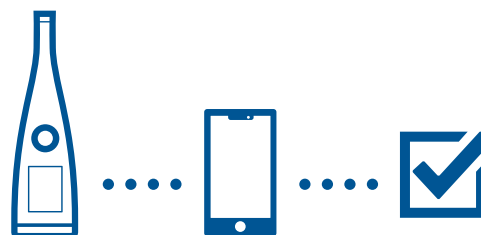
## The complete solution

A sound level meter, B&K 2245 (as shown below) or HBK 2255, and the Noise Partner app installed on a mobile device and PC



See "Ordering information" for an overview.

Job done.



## Sound level meter specifications

For specifications of the sound level meter, see the following product data:

- B&K 2245: [BP 0029](#)
- HBK 2255: [BP 2679](#)

## System requirements for apps

Use the mobile app to set up and control (start, stop, pause) the sound level meter remotely, and to review measurement data.

Use the PC app to analyse data in detail, to generate reports and to export data to other formats.

All iOS mobile apps are available for free download via App Store®.

All PC apps can be downloaded at [www.hbkworld.com](http://www.hbkworld.com).

|                     |                                                                                                                                 |
|---------------------|---------------------------------------------------------------------------------------------------------------------------------|
| PC OPERATING SYSTEM | Windows® 10 or 11 (64-bit)                                                                                                      |
| PC FRAMEWORK*       | Microsoft® .NET 8                                                                                                               |
| MOBILE DEVICE       | iOS-based phone or tablet                                                                                                       |
| iOS                 | See supported iOS versions for current app version in App Store, under <b>Noise Partner &gt; Information &gt; Compatibility</b> |

\* The software will check if pre-installed. If it is not, it will start auto-installation. Accept the installation to run the app.

## Recommended PC for desktop app

|                           |                                         |
|---------------------------|-----------------------------------------|
| Intel® Core™ i5 or better | 8 GB of memory                          |
| Sound card                | At least one available USB port         |
| Solid State Drive         | Microsoft Office 2016 (32-bit) or later |

## App interface

|          |                                                                                                                                                                              |
|----------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| LANGUAGE | User interface in Bulgarian, Catalan, Chinese, Croatian, Czech, Danish, Dutch, English, French, German, Italian, Japanese, Portuguese, Romanian, Slovenian, Spanish, Turkish |
| HELP     | On app: Concise context-sensitive help in English, French, German, Italian and Spanish                                                                                       |

## Wireless communication interface

Connect the mobile and PC apps to the sound level meter wirelessly. Connect the mobile app to one sound level meter at a time.

|                           |                                                                                                                                                                                                       |
|---------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| OPERATING FREQUENCY       | 2.4 GHz                                                                                                                                                                                               |
| DATA RATE                 | IEEE 802.11n: Up to 300 Mbps<br>IEEE 802.11g: Up to 54 Mbps<br>IEEE 802.11b: Up to 11 Mbps                                                                                                            |
| ENCRYPTION/AUTHENTICATION | 64/128-bit WPA-PSK, WPA2-PSK, TLS, SSL                                                                                                                                                                |
| RANGE                     | The range is similar to a standard WLAN unit, typically from 10 to 50 m (33 to 164 ft), depending on the environment and the number of other WLAN transmitters in the area (smartphones, Wi-Fi, etc.) |
| BLUETOOTH CONNECTION      | Bluetooth® Low Energy (BLE) to discover and connect sound level meter, allowing for simpler connections on Wi-Fi, etc. Not used for transporting measurement data or audio                            |

## Wired communication interface

Use a cable to connect the PC app to the sound level meter.

|                           |                          |
|---------------------------|--------------------------|
| CONNECTIONS               | USB-C, Ethernet over USB |
| DATA RATE                 | 150 Mbps                 |
| ENCRYPTION/AUTHENTICATION | TLS, SSL                 |

## Measurement control

|                   |                                                                                                                                           |
|-------------------|-------------------------------------------------------------------------------------------------------------------------------------------|
| MEASUREMENT MODES | Single                                                                                                                                    |
| FREE SETTING      | Manually controlled measurement                                                                                                           |
| PRESET SETTING    | Preset measurement time from 1 second to 31 days in 1 s steps (exactly 31 days, 23 hours, 59 minutes and 59 seconds, that is 31.23.59.59) |
| MANUAL CONTROLS   | Start, Pause, Continue and Stop the measurement manually                                                                                  |
| BACK-ERASE        | The last 1 to 10 s of data can be erased without resetting the measurement                                                                |

## Analysis

## DETECTORS

Parallel detectors on every measurement

|                   |                                                                                                                                                                                                                                                                                                                                                                               |
|-------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| A, B, C or Z      | <b>B&amp;K 2245:</b> Two simultaneous broadband frequency weightings and one frequency analysis frequency weighting<br><b>HBK 2255:</b> Three simultaneous broadband frequency weightings and two simultaneous frequency analysis frequency weightings F, S and I exponential time weightings, linear averaging and peak detector simultaneously for each frequency weighting |
| Overload detector | Monitors the overload outputs of all the frequency weighted channels                                                                                                                                                                                                                                                                                                          |

## MEASUREMENT PARAMETERS

X = frequency weightings A, B, C or Z

Y = time weightings F or S

|                                                    | Measurement             | Sound input                                                 |                                                                |
|----------------------------------------------------|-------------------------|-------------------------------------------------------------|----------------------------------------------------------------|
| Display and storage                                | Start time<br>Stop time | L <sub>Xeq</sub><br>L <sub>Alaq</sub><br>L <sub>Xpeak</sub> | L <sub>XYmax</sub><br>L <sub>XYmin</sub><br>L <sub>Almax</sub> |
| Display only<br>As numbers or<br>quasi-analog bars |                         | L <sub>XY</sub><br>L <sub>XY(SPL)</sub>                     |                                                                |

## Displays on mobile app

|                 |                                                              |
|-----------------|--------------------------------------------------------------|
| XL TOTAL VIEW   | One quasi-analog instantaneous bar and one broadband value   |
| TOTAL LIST VIEW | One quasi-analog instantaneous bar and five broadband values |

## Annotations

Photos, videos, text and voice notes made using the Noise Partner mobile app are embedded into measurement data and stored on the instrument

## Data transfer

Via USB, Wi-Fi, Ethernet or login-free cloud-sharing tool

## Report generation

Set up and preview reports in the PC app

Relevant views and sheets can be printed or exported to the clipboard

|           |                                                                                                                                                                          |
|-----------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| CONTENTS  | Information about the instrument<br>Active measurement display including Profile, Spectrum and Table views                                                               |
| FORMAT    | Microsoft® Word or PDF                                                                                                                                                   |
| COPY DATA | <ul style="list-style-type: none"> <li>• Copy tables to clipboard as text (CSV)</li> <li>• Copy graphs to clipboard as bitmaps (PNG) or vector graphics (SVG)</li> </ul> |

Noise Partner bundles

|             |                                                                  | BUNDLE                                |                                                        |                                             |                                       |                                                        |                                             |                                                               |                                                                      |
|-------------|------------------------------------------------------------------|---------------------------------------|--------------------------------------------------------|---------------------------------------------|---------------------------------------|--------------------------------------------------------|---------------------------------------------|---------------------------------------------------------------|----------------------------------------------------------------------|
|             |                                                                  | 2245-N-S<br>SLM with Noise<br>Partner | 2245-N-SC<br>SLM with Noise<br>Partner &<br>Calibrator | 2245-N-I<br>SLM with Noise<br>Partner & API | 2255-N-S<br>SLM with Noise<br>Partner | 2255-N-SC<br>SLM with Noise<br>Partner &<br>Calibrator | 2255-N-I<br>SLM with Noise<br>Partner & API | 2255-N-W<br>SLM with Noise<br>Partner<br>(no Mic &<br>Preamp) | 2255-N-IW<br>SLM with Noise<br>Partner & API<br>(no Mic &<br>Preamp) |
| SLM         | B&K 2245<br>Sound Level Meter                                    | ✓                                     | ✓                                                      | ✓                                           |                                       |                                                        |                                             |                                                               |                                                                      |
|             | HBK 2255<br>Sound Level Meter                                    |                                       |                                                        |                                             | ✓                                     | ✓                                                      | ✓                                           | ✓                                                             | ✓                                                                    |
| SOFTWARE    | BZ-7300<br>Noise Partner                                         | ✓                                     | ✓                                                      | ✓                                           | ✓                                     | ✓                                                      | ✓                                           | ✓                                                             | ✓                                                                    |
|             | BZ-7400<br>Open API Interface                                    | ✓                                     | ✓                                                      | ✓                                           | ✓                                     | ✓                                                      | ✓                                           | ✓                                                             | ✓                                                                    |
| ACCESSORIES | KE-1038<br>Hard-shell case for SLM<br>and accessories            | ✓                                     | ✓                                                      | ✓                                           | ✓                                     | ✓                                                      | ✓                                           | ✓                                                             | ✓                                                                    |
|             | Type 4231<br>Sound Calibrator                                    |                                       | ✓                                                      |                                             |                                       | ✓                                                      |                                             |                                                               |                                                                      |
|             | Type 4966<br>½" Free-field Microphone                            | ✓                                     | ✓                                                      |                                             |                                       |                                                        |                                             |                                                               |                                                                      |
|             | Type 4966-Z-041<br>½" Free-field Microphone<br>with Preamplifier |                                       |                                                        |                                             | ✓                                     | ✓                                                      | ✓                                           |                                                               |                                                                      |
|             | ZG-0486<br>Mains Power Supply                                    | ✓                                     | ✓                                                      |                                             | ✓                                     | ✓                                                      |                                             |                                                               |                                                                      |
|             | AO-0821-D-010<br>USB 3, USB C to USB A<br>Cable                  | ✓                                     | ✓                                                      |                                             | ✓                                     | ✓                                                      |                                             | ✓                                                             |                                                                      |
|             | UA-1650<br>90 mm dia. Windscreen<br>with AutoDetect              | ✓                                     | ✓                                                      |                                             | ✓                                     | ✓                                                      | ✓                                           | ✓                                                             | ✓                                                                    |
|             | DH-0819<br>Wrist Strap, for sound<br>level meter                 | ✓                                     | ✓                                                      |                                             | ✓                                     | ✓                                                      |                                             | ✓                                                             |                                                                      |
|             | UA-2237<br>Mobile Phone Holder Kit                               | ✓                                     | ✓                                                      |                                             | ✓                                     | ✓                                                      |                                             | ✓                                                             |                                                                      |
|             |                                                                  |                                       |                                                        |                                             |                                       |                                                        |                                             |                                                               |                                                                      |

Apps

The software licences installed on the instrument enable connection to the mobile and desktop apps, which are free to download.  
All iOS mobile apps are available for download via App Store.  
All desktop PC apps can be downloaded at [www.hbkworld.com](http://www.hbkworld.com).

For more information about the apps, see their product data:

- Enviro Noise Partner for B&K 2245 and HBK 2255: [BP 0030](#)
- Work Noise Partner for B&K 2245 and HBK 2255: [BP 0031](#)
- Product Noise Partner for B&K 2245 and HBK 2255: [BP 2643](#)
- Building Acoustics Partner for HBK 2255: [BP 2680](#)

Accessories available separately

INTERFACING HARDWARE

UL-1073 4.7 in App Control Unit, 32 GB  
AO-0846 USB-C to AC or DC Output Cable, with power

CALIBRATION HARDWARE

Type 4231 Sound Calibrator (fits in transport case)

MOUNTING HARDWARE

UA-0750 Tripod  
UA-0801 Lightweight Tripod  
UA-1651 Tripod Extension

Software modules available separately

Purchase licences separately to build a custom solution

PERMANENT LICENCES

BZ-7300 Noise Partner Licence  
BZ-7300-UPG Upgrade from Exhaust Noise Partner to Noise Partner  
BZ-7301 Enviro Noise Partner Licence\*  
BZ-7302 Work Noise Partner Licence\*  
BZ-7303 Product Noise Partner Licence\*  
BZ-7304 Exhaust Noise Partner Licence, for B&K 2245 only  
BZ-7350 Building Acoustics Partner Licence\*, for HBK 2255 only  
BZ-7400 Open Interface Licence\*  
BZ-7401 Extended Broadband Analysis Licence\*  
BZ-7402 Logging Licence\*  
BZ-7403 Frequency Analysis Licence\*  
BZ-7404 MP3 Audio Licence\*  
BZ-7450 Advanced Logging Licence†, for HBK 2255 only  
BZ-7451 Analysis Quality Audio Licence‡, for HBK 2255 only

TIME-LIMITED LICENCES

Licences with a 12-month duration, node-locked to the instrument, option to renew as needed  
BZ-7301-NT12 Enviro Noise Partner Licence\*  
BZ-7302-NT12 Work Noise Partner Licence\*  
BZ-7303-NT12 Product Noise Partner Licence\*  
BZ-7350-NT12 Building Acoustics Partner Licence\*, for HBK 2255 only  
BZ-7450-NT12 Advanced Logging Licence†, for HBK 2255 only  
BZ-7451-NT12 Analysis Quality Audio Licence‡, for HBK 2255 only

\* Requires BZ-7300

† For HBK 2255 only, requires BZ-7300 and logging mode, which is enabled by BZ-7301, BZ-7302, or BZ-7402

‡ For HBK 2255 only, requires BZ-7300 and MP3-quality audio, which is enabled by BZ-7301, BZ-7302, BZ-7303, BZ-7350 or BZ-7404