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 and features

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 mater 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.

B&K 2245   HBK 2225

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

Quickly confirm connection to the instrument

View any measurement parameter

Start, stop, pause and annotate the measurement

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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.
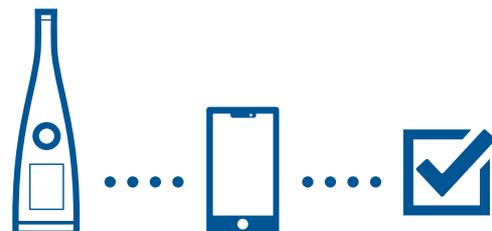
The complete solution

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

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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 mobile apps are available for free download via the App Store®.
All PC apps can be downloaded at www.bksv.com/2245-updates.

PC OPERATING SYSTEM	Windows® 10 or 11 (64-bit)
PC FRAMEWORK*	Microsoft® .NET 4.7.2
MOBILE DEVICE	iOS-based phone or tablet
iOS VERSION	See supported iOS versions for current app version in the App Store, under **Noise Partner > Information > Compatibility**

* 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

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
	IEEE 802.11g: Up to 54 Mbps
	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&K 2245**: Two simultaneous broadband frequency weightings and one frequency analysis frequency weighting **HBK 2255**: 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 Stop time	L_{Xeq} L_{Aleq} L_{Xpeak}	L_{XYmax} L_{XYmin} L_{AImax}
Display only As Numbers or Quasi-analog Bars		L_{XY} $L_{XY(SPL)}$	

Displays on mobile app

XL TOTAL VIEW	One quasi-analogue instantaneous bar and one broadband value
TOTAL LIST VIEW	One quasi-analogue 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

Relevant views and sheets can be printed or exported to the clipboard:
- Reports in Microsoft® Word format or PDF
- Tables can be copied to clipboard as text (CSV)
- Graphs can be copied to clipboard as bitmaps (PNG) or vector graphics (SVG)

Noise Partner bundles

		TYPE 2245-N-S SLM with Noise Partner	TYPE 2245-N-SC SLM with Noise Partner & Calibrator	TYPE 2245-N-I SLM with Noise Partner & API	TYPE 2255-N-S SLM with Noise Partner	TYPE 2255-N-SC SLM with Noise Partner & Calibrator	TYPE 2255-N-I SLM with Noise Partner & API	TYPE 2255-N-W SLM with Noise Partner (no Mic & Preamp)	TYPE 2255-N-IW SLM with Noise Partner & API (no Mic & Preamp)
SLM	**B&K 2245** Sound Level Meter	✓	✓	✓					
	HBK 2255 Sound Level Meter				✓	✓	✓	✓	✓
SOFTWARE	**BZ-7300** Noise Partner	✓	✓	✓	✓	✓	✓	✓	✓
	BZ-7301 Enviro Noise Partner								
	BZ-7302 Work Noise Partner								
	BZ-7303 Product Noise Partner								
	BZ-7304 Exhaust Noise Partner								
	BZ-7400 Open API Interface	✓	✓	✓	✓	✓	✓	✓	✓
ACCESSORIES	**KE-1038** Hard-shell case for SLM and accessories	✓	✓	✓	✓	✓	✓	✓	✓
	Type 4231 Sound Calibrator		✓			✓			
	Type 4966 ½″ Free-field Microphone	✓	✓						
	Type 4966-Z-041 ½″ Free-field Microphone with Preamplifier				✓	✓	✓		
	ZG-0486 Mains Power Supply	✓	✓		✓	✓			
	AO-0821-D-010 USB 3, USB C to USB A Cable	✓	✓		✓	✓		✓	
	UA-1650 90 mm dia. Windscreen with AutoDetect	✓	✓		✓	✓	✓	✓	✓
	DH-0819 Wrist Strap, for sound level meter	✓	✓		✓	✓		✓	
	UA-2237 Mobile Phone Holder Kit	✓	✓		✓	✓		✓	

Software modules available separately

Purchase licences separately to build a custom solution

BZ-7300	Noise Partner Licence (included)
BZ-7300-UPG	Upgrade from Exhaust Noise Partner to Noise Partner
BZ-7301	Enviro Noise Partner Licence (see product data BP 0030)
BZ-7302	Work Noise Partner Licence (see product data BP 0031)
BZ-7303	Product Noise Partner Licence (see product data BP 2643)
BZ-7350	Building Acoustics Partner Licence (HBK 2255 only) (see product data BP 2680)
BZ-7400	Open Interface Licence (see product data BP 2635)
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 (HBK 2255 only), requires the basic logging capabilities included in the Enviro Noise Partner, Work Noise Partner or Logging licences
BZ-7451	Analysis-quality Audio Licence (HBK 2255 only)

All mobile apps are available for download via the App Store.
All desktop PC apps can be downloaded at www.bksv.com

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

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