

B&K 2245 Sound Level Meter Release Note

Version 1.0

1 April 2019



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Introduction

B&K 2245 is a new low- to mid-range class 1 sound level meter. It has been developed with a focus on simplicity and ease of use. It has built-in Bluetooth® and Wi-Fi and works with a range of apps created for iOS and Windows®. The apps are targeted at individual jobs-to-do, with features and measurement capabilities tailored to the task.

Uses and features

B&K 2245 will be sold with a range of application licences, targeted at specific jobs-to-do:

Exhaust Noise Partner	Noise Partner	Work Noise Partner	Enviro Noise Partner
Stationary exhaust noise testing of light vehicles	Simple broadband sound measurements	Occupational noise exposure assessments	Environmental noise surveys

Each application licence:

- Enables specific measurement functions on the sound level meter
- Determines which mobile app can connect to the sound level meter
- Is embedded in all measurements created by the sound level meter, enabling licenced PC applications to open the measurements for analysis and reporting

A summary of measurement functions and licenced apps for each application licence is shown below:

	Exhaust Noise Partner	Noise Partner	Work Noise Partner	Enviro Noise Partner
Licenced app(s) (iOS and PC)	•Noise Partner	•Noise Partner	•Noise Partner •Work Noise Partner	•Noise Partner •Enviro Noise Partner
Frequency weightings	A	A, B, C, Z Two weightings simultaneously	A, B, C, Z Two weightings simultaneously	A, B, C, Z Two weightings simultaneously
Stored broadband parameters	L _{XYmax} , L _{XYmin}	L _{Xeq} , L _{XYmax} , L _{XYmin} , L _{Xpeak} , L _{Aleq}	L _{Xeq} , L _{XYmax} , L _{XYmin} , L _{Xpeak} , L _{Aleq} , L _{XE(SEL)} , L _{avS4} , L _{avS5}	L _{Xeq} , L _{XYmax} , L _{XYmin} , L _{Xpeak} , L _{Aleq} , L _{XE(SEL)} , L _{AFTeq}
Broadband statistics				L _{AF} , L _{AS} or L _{Aeq} based, full distribution stored
Frequency analysis bandwidth			1/1- or 1/3-octave	1/1- or 1/3-octave
Stored frequency analysis parameters			L _{Xeq}	L _{Xeq} , L _{XYmax} , L _{XYmin}
Logging			1, 5, 10, 30 or 60 s intervals	1, 5, 10, 30 or 60 s intervals
Audio recording			Listening quality 24-bit MP3	Listening quality 24-bit MP3

Where X = Frequency weighting; Y = Time weighting F or S

The Noise Partner app can be used with all B&K 2245 units. It includes general purpose measurement control, annotation and review functionality, but different measurement control and review screens will be available depending on the licenced measurement functions.

The **Exhaust Noise Partner** licence does not include a specific app. It uses the Noise Partner app, but with the minimal set of measurement capabilities needed for stationary exhaust noise testing according to ISO 5130 and the equivalent SAE standards. No specific workflow support is included.

The **Noise Partner** licence includes a larger collection of broadband parameters than Exhaust Noise Partner. No specific workflow support is included.

The **Work Noise Partner** licence adds a wide range of measurement capabilities, as well as the Work Noise Partner iOS and PC apps. These apps implement task- and job-based noise exposure surveys according to ISO 9612. Other methodologies, such as OSHA and NIOSH, will be added in future updates. The Noise Partner app can also be used for free-form measurement tasks.

The **Enviro Noise Partner** licence adds a wide range of measurement capabilities, as well as the Enviro Noise Partner iOS and PC apps. These apps add features useful in environmental noise surveys, including marker creation and editing tools on iOS and PC, audio playback, and project export into pre-configured Excel® master sheets for calculations and reporting to local standards.

Product items

Sound level meter bundles

B&K 2245 is sold in bundles including application licences, a hard carrying case and essential accessories. There is a bundle with and without a Type 4231 calibrator for each application licence:

Application licence	Exhaust Noise Partner	Noise Partner	Work Noise Partner	Enviro Noise Partner
Without calibrator	-2245-X-L-	-2245-N-S-	-2245-W-S-	-2245-E-S-
With calibrator	-2245-X-LC-	-2245-N-SC-	-2245-W-SC-	-2245-E-SC-

The following accessories are included in the bundles:



Application licences

Additional application licences for B&K 2245 can also be purchased separately; at the time the SLM is purchased or added at a later date.

BZ-7301--N-	Enviro Noise Partner
BZ-7302--N-	Work Noise Partner
BZ-7300--UPG-	Upgrade from Exhaust Noise Partner to Noise Partner

Accessories

In addition to the accessories included with B&K 2245, the following accessories are available:

Item	Description	Notes
AO-0846---	Adapter cable, USB 3.0, USB-C (M) to USB-C (F) and 3.5mm jack socket (F)	This adapter cable allows the user to output conditioned audio, or a DC voltage proportional to level

UL-1073—	Hardware, 4.7" App Control Unit, 32 GB	This is an iPhone® 7 with international adapter kit, intended for customers who cannot normally purchase an Apple device.
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Service products

B&K 2245 has been classified as a 'simple sound level meter' for Brüel & Kjær calibration services. This means that the SLM-SIM-XXX series of calibration products should be used.

Calibration Plus contracts can also be offered with B&K 2245. With a Calibration Plus contract, your customer receives:

- Extended warranty coverage for duration of the contract, up to 10 years
- 5% discount per year of contract duration (2 – 5 years)
- 10% discount on rental equipment and accessories

You can find more information on Calibration Plus on ODIN, here:

http://odin.bksv.com/tbDoc/5932/Calibration%20Plus%20Service%20Contract_PD_proofread%20v1.1.pdf

Ordering information

Item numbers, descriptions and initial European sales prices are given for B&K 2245 variants and related accessories, below:

Sound level meter bundles

Item number	Item description	Price €
-2245-N-S-	Sound Level Meter B&K 2245 with Noise Partner and Standard Accessories	2500
-2245-N-SC-	Sound Level Meter B&K 2245 with Noise Partner, Calibrator Type 4231 and Standard Accessories	3300
-2245-E-S-	Sound Level Meter B&K 2245 with Enviro Noise Partner and Standard Accessories	4300
-2245-E-SC-	Sound Level Meter B&K 2245 with Enviro Noise Partner, Calibrator Type 4231 and Standard Accessories	5100
-2245-W-S-	Sound Level Meter B&K 2245 with Work Noise Partner and Standard Accessories	3700
-2245-W-SC-	Sound Level Meter B&K 2245 with Work Noise Partner, Calibrator Type 4231 and Standard Accessories	4500
-2245-X-L-	Sound Level Meter B&K 2245 with Exhaust Noise Partner and Limited Accessories	1900
-2245-X-LC-	Sound Level Meter B&K 2245 with Exhaust Noise Partner, Calibrator Type 4231 and Limited Accessories	2700

Firmware

All orders for B&K 2245 *must* add a firmware item to specify which firmware is loaded on the instrument. Customers in countries where a WELMEC complaint instrument is required for legal metrology (currently Germany and Spain) should select the WELMEC firmware variant for their country. All other customers should normally select FW-2245-000-.

Item number	Item description	Price €
FW-2245-000-	Sound Level Meter 2245 standard firmware	10
* FW-2245-001-	Sound Level Meter 2245 WELMEC Type Approved firmware, Germany	10
* FW-2245-002-	Sound Level Meter 2245 WELMEC Type Approved firmware, Spain	10

* Type approved WELMEC firmware items are not yet released for sale. These items will be released when type approval is granted by the relevant authorities.

Additional licences

Additional licences can be added to B&K 2245 using the items below:

Item number	Item description	Price €
BZ-7301--N-	Enviro Noise Partner	1800
BZ-7302--N-	Work Noise Partner	1200
BZ-7300--UPG-	Upgrade from Exhaust Noise Partner to Noise Partner	600

Accessories

The following accessories can also be purchased separately:

Item number	Item description	Price €
KE-1034---	Hard shell briefcase for B&K 2245 and accessories	150
ZG-0484---	Power Supply, for AU-EU-GB-US, wall-adapter	75

AO-0821-D-010-	Cable, USB 2,0, USB-C (M) to USB-A (M) black, 1.0m ...	60
DH-0819---	Equipment part, wrist strap, for B&K 2245	25
UA-2237---	Tripod and smart phone holder kit for B&K 2245	200
UL-1073---	Hardware, 4.7" App Control Unit, 32 GB	630
AO-0846---	Adapter cable, USB 3.0, USB-C (M) to USB-C (F) and 3,5mm jack socket (F), 0.1m ...	75
UA-1650---	Windscreen, Assembly, 90mm round, with click-insert, black polyurethane	92.10
UA-0750---	Tripod, light aluminium, 4-sections, 3 risers 0.4m – 1.31m. levelling leg, with ball head, black	160
UA-0801---	Tripod, lightweight set, tripod UA-0803 with ball head UA-0800	397

Marketing materials

A range of targeted sales and marketing material has been created and uploaded to ODIN and collected under the following page: <http://odin.bksv.com/default.asp?ID=6810>

Marketing materials such as advertisements, posters, a roll-up and digital banner designs have been created. They can be found on ODIN, here: <http://odin.bksv.com/default.asp?ID=6835>

Brochures, a flyer, sales presentation, promotional videos, and product data sheets have also been created. They can be found on ODIN, here: <http://odin.bksv.com/default.asp?ID=6832>

A getting started guide, and a series of short how-to videos for performing common tasks with B&K 2245 can be found on ODIN, here: <http://odin.bksv.com/default.asp?ID=6833>

Internal training materials such as a setup-guide for live demos, suggested responses to customer objections, competitive analyses, training recordings and more can be found on ODIN, here: <http://odin.bksv.com/default.asp?ID=6834>

Product photos and screenshots have been added to [image bank](#), and can be found easily by searching image bank for 2245.

The overall web page for B&K 2245 can be reached via the following URL: www.bksv.com/2245 (and corresponding language pages). From here visitors can continue to one of the more detailed product pages.

Release schedule

Initially, B&K 2245 will only be released for sale in Europe¹, USA, Canada, Australia, New Zealand.

Release for sale 01/04/2019

Release for delivery 01/05/2019

The product will be released for sale in additional countries as wireless device regulatory approvals are granted.

Type approval

B&K 2245 is being released without type approval in place. Type approvals are being sought in multiple countries. The first type approval(s) are expected to be in place by August 2019, but no dates can be guaranteed as the type approval process is not within our control.

¹ Countries covered by the Radio Equipment Directive (RED, EU directive 2014/53/EU). Excludes Serbia, Bosnia, Russia.