

TYPE 2250

HAND-HELD ANALYZER WITH APPLICATION SOFTWARE BZ 7222, BZ 7223, BZ 7224, BZ 5503

Designed by You, for You

Development of Type 2250 was instigated and greatly inspired by the requirements of customers participating in extensive workshops around the world. These concluded that the instrument should be easy and safe to use, while at the same time incorporating clever features.

The hardware has been designed to meet the specific ergonomic requirements defined by users, and the application software covers everything expected of a sound and vibration analyzer in this class. The application software can be licensed separately, so you can get what you need when you need it and won't get left behind if your requirements change. This way, Type 2250 ensures the safety of your investment now and in the future.

Created, built and made for you personally, you'll find it will make a difference to your work and all your measurement tasks.

For more information go to www.type2250.com



A Natural Part of the Environment

Armed with Type 2250 in the palm of your hand, measurement tasks become uncomplicated. With Type 2250 Brüel & Kjær offers you the same look and feel for system and application software both in your hand and on your desk – encouraging familiarity and reducing the burden of learning new user interfaces. You change the system's functionality by simply selecting the appropriate software application for your task. So whether you're measuring on the factory floor, by a busy road,

in a theatre, or reviewing data at your desk, there is dedicated software to provide you with exactly what you need.

Much more than an instrument that simply measures relevant parameters correctly, it will make the difficult aspects of your work easier and the more tedious aspects faster. Type 2250 lends a helping hand to all your measurement tasks allowing you to concentrate your efforts on investigating and solving your sound or vibration problem.



Uniquely User-friendly

The real uniqueness of Type 2250 lies in its extreme user-friendliness.

Type 2250 is **easy** to use – its robustness, lightness and ergonomic design make it easy to grip, hold and operate single-handedly. Ingenious software ensures you can start measuring quickly. The pushbuttons are easy to use and the large, colour touch-screen is visible in both sunlight and in difficult lighting conditions. Type 2250 incorporates a simple user interface that can be controlled using the stylus, or by using the pushbuttons. It has an easy and intuitive data-storage concept and on-

line guidance is included to help you get familiar with the instrument quickly.

Type 2250 is **safe** to use – it was built for use outdoors and in difficult environmental conditions, so it is powered by rechargeable batteries and the casing incorporates non-slip materials to ensure a safe grip. The software guides you safely through each measurement and status indicators show measurement progress.

Type 2250 is **clever** – it incorporates various smart features for field use, including:

- Specially positioned pushbuttons to allow vital start-stop-save actions to be done by feel

- A separate built-in microphone, giving you the option of recording your personal comments while measuring and automatically attaching them to your on-going measurement
- “Traffic light” indicators to give you a quick indication of your measurement’s status – visible at a distance
- A calibration history, allowing you to document your measurement’s validity
- Built-in functions that automatically detect and correct for windscreen effects
- Modem connection and parallel measurement/download-ing makes it highly suitable as a remote datalogger



FEATURES

- Large, high-resolution, touch-sensitive colour screen
- Rechargeable, high-capacity Li-Ion battery pack
- Data storage on plug-in memory-cards (Secure Digital and Compact Flash)
- Standard USB interface
- Built-in commentary microphone to voice-tag your data
- Traffic-light indicator for instant measurement status
- Lit keys

BRIEF SPECIFICATIONS

Weight and Dimensions

650 g (23 oz) including rechargeable battery
300 × 93 × 50 mm
(11.8 × 3.7 × 1.9")

Accessories Included

BZ 7222: 2250 Sound Level

Meter Software

BZ 5503: PC Software for

Hand-held Analyzers

Type 4189: Microphone

ZC 0032: Microphone

preamplifier

ZG 0486: Mains Power Supply

DH 0696: Wrist Strap

KE 0440: Travel Bag

KE 0441: Protective Cover

UA 1651: Tripod Extension

AO 1476: USB Cable

QB 0061: Pack Battery

UA 1650: 90 mm Windscreen
with Autodetect

HT 0015: Earphones

Optional Accessories

BZ 7223: 2250 Frequency

Analysis Software

BZ 7224: 2250 Logging Software

2250 SOFTWARE

The application software used with Type 2250 can be considered as blocks of optional functionality that can be enabled by licence codes. Whichever software you choose, you can be assured that a planned growth path is developing continuously with the product.

BZ 7222 – 2250 SOUND LEVEL METER SOFTWARE

(Included with every Type 2250)

USES/FEATURES

- Environmental noise
- Research and development
- Gathering field-data for further analyses
- Appraisal of noise reduction efforts
- 120 dB dynamic range – no need for range switching
- Sound levels up to 140 dB with supplied Microphone Type 4189 (up to 152 dB using Microphone Type 4191)
- Broadband statistics
- Remote operation via USB link
- IEC/ANSI SLM standards Type/Class 1
- Weightings: A, C, Z and F, S, I
- Statistics based on L_{Aeq} or L_{AF}
- Frequency range: 3 Hz – 20 kHz

- Free-field/diffuse-field correction
- Automatic windscreen correction
- Pre-set time start/stop
- Back-erase
- Multi-language user interface (English, French, German, Italian, Spanish)
- Context-sensitive on-line help
- Voice and text annotation of measurements
- Display colour-schemes optimised for day, night, indoor and outdoor use
- Personal login
- Personal setup

ORDERING INFORMATION

Hardware and Software

Type 2250 A: 2250 Hand-held Analyzer with Sound Level Meter Software

Accessories

Type 4231: Sound Level Calibrator

AO 0440: Signal Cable, AC/DC Input/Output, Triaxial LEMO to BNC

AO 0441: 10-pin LEMO Microphone Extension Cable, 3 m

AO 0442: 10-pin LEMO Microphone Extension Cable, 10 m

AO 0586: Sound Cable, Triaxial LEMO to 3.5 mm jack

UA 0237: Large Round Windscreen

UA 1317: Microphone Holder

UA 1404: Outdoor Microphone Kit

UA 0801: Lightweight Tripod

QB 0061: Battery Pack

ZG 0444: Battery Charger for QB 0061 Battery Pack



BZ 5503 – PC SOFTWARE FOR HAND-HELD ANALYZERS

(Included with every Type 2250)

USES/FEATURES

- Synchronisation of data and setups between Type 2250 and PC
- On-line or off-line setup of instrument
- Advanced data management
- Remote instrument display via USB connection
- Type 2250 measurement data compatible with PC software Type 7815, Type 7820, Type 7825



BZ 7223 – 2250 FREQUENCY ANALYSIS SOFTWARE

BZ 7223 – 2250 Frequency Analysis Software allows real-time measurements in 1/1- and 1/2-octave bands. With the frequency analysis software enabled, it is a simple matter to obtain frequency spectra in order to, for example, select suitable hearing protection, assess tonality in environmental noise, or qualify noise from heat and ventilation systems.

FEATURES

- IEC/ANSI filter standards
- 1/1-octave (centre frequencies 8 Hz to 16 kHz)
- 1/2-octave (centre frequencies 6.3 Hz to 20 kHz)
- 120 dB dynamic range

ORDERING INFORMATION

Hardware and Software

Type 2250 B: 2250 Hand-held Analyzer with Sound Level Meter and Frequency Analysis Software

Type 2250 D: 2250 Hand-held Analyzer with Sound Level Meter, Frequency Analysis and Logging Software

Software Only

BZ 7223: 2250 Frequency Analysis Software



BZ 7224 – 2250 LOGGING SOFTWARE

BZ 7224 – 2250 Logging Software extends the functionality of Type 2250 to allow automatic storage of discrete measurements in a log file. Sequential examination of the individual elements of the log file, either on the screen of Type 2250 or using application software on a PC, reveals the trend, or profile, of the measured parameters. Noise profile analysis is indispensable when considering situations with fluctuating ambient environmental noise, such as measurement of industrial and construction site noise, residential noise, or road and rail traffic noise.

FEATURES

- Logging of broadband parameters
- Logging of statistics
- Logging of spectra (if frequency analysis software is present)
- Logging interval 1 s to 24 h
- L_{Aeq} or L_{AF} logged every 100 ms
- Profile display
- Markers on profile
- Voice markers
- Local or remote control of start/stop
- Remote control using Compact Flash modem
- Transfer of data while measuring (USB or modem)

ORDERING INFORMATION

Hardware and Software

Type 2250 C: 2250 Hand-held Analyzer with Sound Level Meter and Logging Software

Type 2250 D: 2250 Hand-held Analyzer with Sound Level Meter, Frequency Analysis and Logging Software

Software Only

BZ 7224: 2250 Logging Software

Accessories

Type 3592: Outdoor Measuring Gear

UA 1404: Outdoor Microphone Kit

Type 7820: Evaluator software

