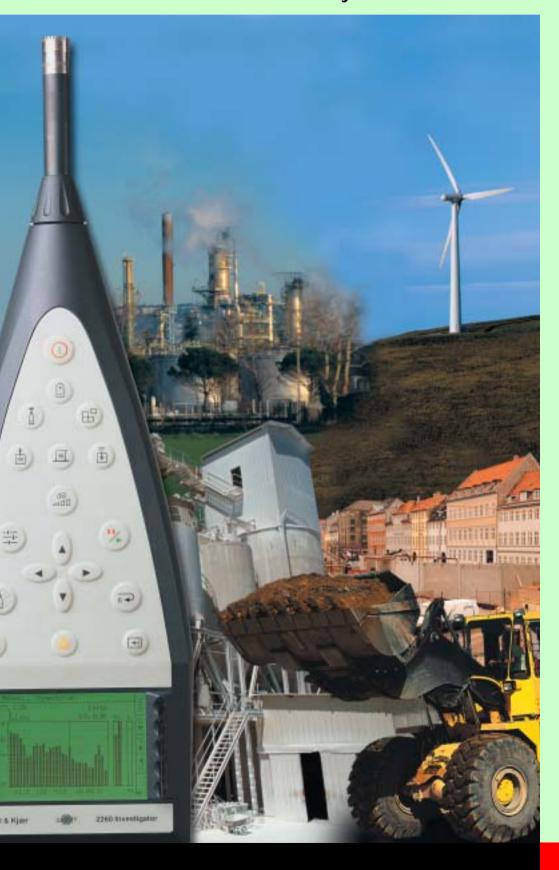
PRODUCT DATA

Modular Precision Sound Analyzer — 2260 Investigator™ with Basic Sound Analysis Software — BZ7210



2260 Investigator™ is a versatile, handheld, battery-operated, two-channel sound analyzer comprising hardware and embedded operating-system software. It is the ideal platform for high-quality, real-time sound analyses. Like a personal computer, it is driven by application software for various tasks.

Basic Sound Analysis Software BZ 7210, shipped with 2260 Investigator, converts the instrument into a precision sound level analyzer which conforms with IEC and ANSI Type 1 standards. Besides the vast array of simultaneously measured parameters (including statistics), direct interfacing with a PC enables data to be downloaded using optional Windows" software developed by Brüel & Kjær.

Other applications available for 2260 Investigator include Enhanced Sound Analysis (BZ 7202), Noise Profile (BZ 7203), Building Acoustics (BZ 7204), Sound Intensity (BZ 7205), Enhanced Sound Analysis 20 kHz (BZ 7206), Room Acoustics (BZ 7207) and FFT Analysis (BZ 7208). These applications are installed into the instrument from PC-cards.

2260/BZ 7210

USES	O Comprehensive sound measurements
	O Detailed octave and $^{1}/_{3}$ -octave band analyses
	O Appraisal of noise reduction efforts
	O Gathering field-data for further analyses
	O Research and development
FEATURES	○ IEC and ANSI Type 1 sound level meter
	O Real-time octave and $^{1}/_{3}$ -octave band analyses
	O Display zoom and cursor facilities
	O Lightweight, hand-held, real-time analyzer
	O Broad-band statistics
	O Multi-language (GB, D, F, I, E) user interface with context-sensitive on-line help

The Platform Expands

2260 Investigator™ is a precision sound analyzer based on a unique platform concept. This Product Data describes 2260 Investigator driven by the Basic Sound Analysis Software BZ 7210, together with details of new features and upgrades.

2260 Investigator is better than ever. The potent combination of upgraded tools and unique application software ensures that 2260 Investigator remains the world's most advanced hand-held, battery operated sound analyzer. A wealth of improvements make 2260 Investigator unbeatable value for even the most discriminating acoustic specialist.

Functionally, the 2260 platform has generous hardware and software specifications (see specifications) suiting an extremely flexible instrument to cover all your current and future sound analyses needs. Simply by loading different software applications provided by Brüel & Kjær on industry standard PC-cards, you change the functionality of the instrument as easily as changing from using a word processor to a spreadsheet on your PC.

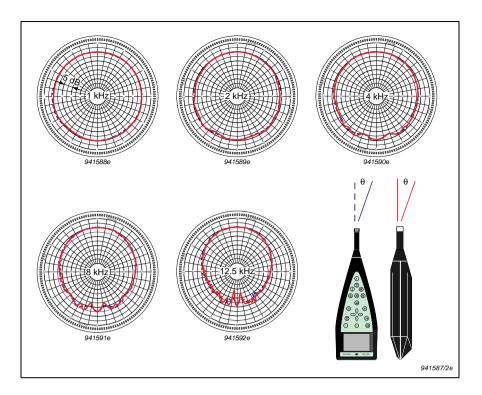
2260 Investigator is now shipped with Basic Sound Analysis Software BZ 7210. With this, the analyzer becomes a Type 1 sound level meter with real-time $^1/_3$ -octave frequency analysis and Broadband statistical distributions.

For storage, overview and post-processing, the data may be transferred to a PC using the new Noise ExplorerTM or EvaluatorTM software. Data is displayed graphically or as tables.

If you choose Evaluator you can work with profiles and events on your PC. You can view $^{1}/_{3}$ -octave spectra to estimate penalties for tonal content. Furthermore you can combine a number of measurements to produce Rating Level figures according to national and international standards.

With Noise Explorer software, transfer your data from 2260 Investigator via a PC-card or an RS-232 serial interface. Use Noise Explorer to manage your data, for example creating backup files of the most important "reference" measurements.

Fig. 1 The slim shape of the 2260 Investigator has a purpose beyond good looks: the effect on the sound field is minimised, assuring accurate measurements. The directional characteristics when fitted with microphone Type 4189 at 1, 2, 4, 8 and 12.5 kHz are shown here for both lateral (red curves) and longitudinal (blue curves) directions

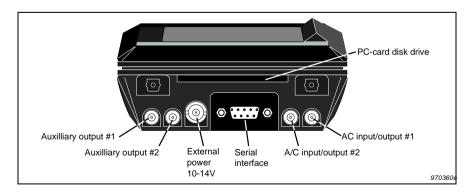


Enhanced Sound Analysis

For all of the benefits BZ 7210 can offer, and more, choose Enhanced Sound Analysis Software 20 kHz BZ 7206. This application has a range of new features, including sound recording and an automatic Charge Injection Calibration (CIC) facility for checking microphone condition. Measurements may be programmed using automatic sequences or timers, and spectral statistics may be measured.

Inputs and Outputs available with BZ 7210

Fig. 2 The inputs and outputs of 2260 Investigator



Microphone/Input Stage

2260 Investigator is supplied with a Falcon™ Range ¹/₂" microphone and input stage that conform to IEC and ANSI Type 1 standards. Its input stage is able to drive an extension cable of up to 100 m placed between the microphone/input-stage assembly and the main body; a valuable feature when a measurement requires remote location of the microphone, for example when using Outdoor Microphone Kit UA 1404.

AC Input/Output

This can act as either an analogue input or output, for example when sending DAT recorded signals into 2260 Investigator for further analysis.

Aux. Outputs

There are two of these, one for each channel, and can be set-up independently for use with level recorders, triggering DAT recorders, sound recording in combination with Brüel & Kjær PC-software, or monitoring the microphone signal.

RS-232 Serial Interface

2260 Investigator has an RS-232 standard serial interface that allows easy data transfer and remote control of the instrument. Both Noise Explorer and Evaluator software can use this interface to transfer data at up to 38,400 bps. If you use Evaluator you also have the ability to use a dial-up modem – ideal for long-term monitoring jobs in out of the way places.

Calibration Features Available with BZ 7210

Internal Calibration

The internal calibration method uses a stable, internal electrical reference signal to directly excite the preamplifier output. The whole measurement chain, except the microphone and preamplifier, is calibrated in this way. By entering the microphone's sensitivity, a very quick and reliable calibration is possible.

External Calibration

The external method requires the microphone to be coupled to a stable reference sound source, such as Brüel & Kjær's Sound Level Calibrator Type 4231 or Pistonphone Type 4228, or the Multifunction Acoustic Calibrator Type 4226. This method calibrates everything in the measurement chain.

Initial and Accredited Calibration

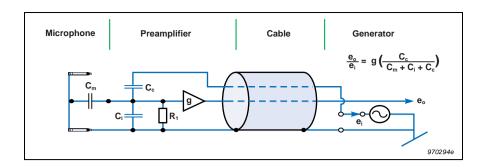
Each analyzer "remembers" its initial calibration together with the serial number of its microphone and will report any deviation from this Initial Calibration. An Accredited Initial Calibration (EK 0462) is done only at the factory. If you need one, or need to renew the one in your analyzer, contact your Brüel & Kjær representative.

Charge Injection Calibration

Basic Sound Analysis BZ 7210 uses the 2260 Investigator's CIC (Charge Injection Calibration) facility. CIC allows the analyzer to monitor the measurement chain right from the microphone diaphragm. When you perform an Internal or External Calibration, a reference CIC is also automatically made and the result stored as a reference. Later you may initiate a CIC and compare to the reference (see Fig. 3). A stable CIC ratio assures stable operation of microphone, cable, preamplifier and the remaining measurement system.

Fig. 3 Charge Injection Check. High-leakage resistance capacitor C_{c} is set in parallel with the microphone and fed with voltage e_{i} .

The ratio $e_{\text{o}}/e_{\text{i}}$ is constant when g, C_{c} , C_{m} and C_{i} are constant. Changes to preamplifier gain (g), cable parameters, microphone capacitance (C_{m}) , etc., will change $e_{\text{o}}/e_{\text{i}}$, and hence indicate probable changes in calibration



Making Measurements with BZ7210

However many noise parameters (discrete, spectral and statistical) you select to measure with the 2260 Investigator, they will all be measured concurrently. Serial measurements which are expensive and time-consuming (or downright impossible!) are simply not necessary.

2260 Investigator's real-time digital signal processor (DSP) allows you viewing access at any time to all the parameters measurable. Each parameter can be regarded as a point in a multi-point array continuously being updated. While viewing a spectrum, you can switch over to see how any of the other parameters are developing, for example, the current values of LN, (broad-band) or LCeq-LAeq which is an indication of low frequency content. Such analysis techniques are advantageous when the sound source is complex and you need on-the-spot tonal information, for example when choosing hearing-protection aids.

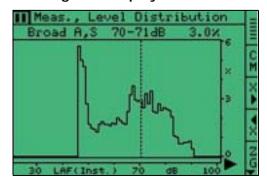
When you've made your measurements, you can store the final results in a file to view them later, or analyse them further using one of the 2260 platform's extensive range of PC-based software packages.

Measurement Parameters

You can see from the specifications box that 2260 Investigator can measure an impressive array of parameters based on various combinations of time and frequency weightings, filtering, detection of peaks, and so forth.

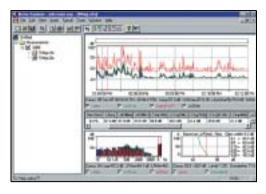
During measurements, the A-weighted, and C or L-weighted sound signals are sampled by two 18-bit A/D converters and processed by the real-time DSP. The DSP continuously calculates the current values for the whole array of selected sound parameters. You can display these immediately and store later when the measurement is completed.

Viewing and Display



During measurement, or when a set of measurements are in the memory, you can view the data in a number of ways. Spectral data (in octave or ¹/₃-octave bands) and statistical data (level and cumulative distributions) can be displayed graphically, complete with display zoom and cursor facilities.

Data & File Management



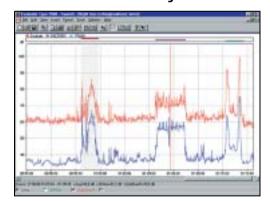
The optional Noise Explorer Type 7815 PC software allows you to download measurement data from 2260 Investigator to a database. You decide later what data to view and present. Noise Explorer supports a wide range of user-definable graphic and tabular displays. Graphs and tables can be imported into standard Windows applications such as word processors and spreadsheets.

2260 Investigator also allows data exchange using PC-cards and serial interface. When directly connected to a printer, for example Portable Printer Type 2322, you can print data graphically or numerically just as it appears on the 2260 screen.

The Investigator's file structure is based upon embedded MS-DOS® software, allowing file-management facilities as well as data transfer to and from a PC. Moreover, 2260 Investigator can output data (via its serial interface) to a spreadsheet format, so that you can easily import your measurements into a spreadsheet for further processing and presentation in reports.

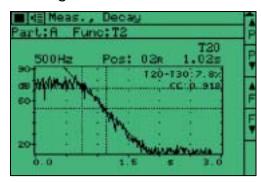
Application Software

Enhanced Sound Analysis Software



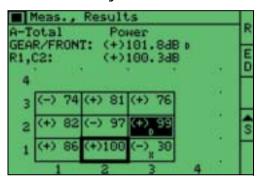
For a comprehensive data management and reporting system, consider Enhanced Sound Analysis Software BZ 7206 for 2260 Investigator and Evaluator Type 7820 software for your PC. This powerful combination of measurement and post-processing software should cover all your community noise measurement requirements. Evaluator has built-in calculation algorithms that allow you to produce compound sound level figures from several contributions, some perhaps with impulse or pure tone penalties, according to which measurement standard you choose, for example ISO 1996, DIN 45 645, TA Lärm, NFS 31-010, BS 4142.

Building Acoustics



If it is a building acoustics measurement problem that you have to solve, choose 2260 Investigator with Building Acoustics Software BZ 7204 installed. When your measurements are complete, you can, for example, immediately see the reverberation decay curve on the analyzer's screen. For a more in-depth analysis, choose Qualifier™ Type 7830 software which is dedicated to working directly with data supplied by BZ 7204. As well as further analysis of building acoustics measurements, Qualifier allows you to create convincing documentation of your work using its powerful reporting and exporting tools.

Sound Intensity



BZ 7205 software is dedicated to measuring sound intensity and calculating Sound Power. Install this application in your 2260 Investigator, mount the probe, and you have a complete sound intensity measuring system that is truly portable. And because the intensity probe is an integral part of the instrument, there are no wires to get tangled up when measuring in out of the way places. The on-screen display guides you through, for example, the required measuring grid, and if there is any uncertainty about the validity of a measurement, BZ 7205 software will prompt you to redo it without jeopardising the rest of the total measurement.

Fig. 4
2260 Investigator is
truly portable.
Whichever
application you
choose to run, you
will always be sure
of having a
laboratory-grade
instrument right in
the palm of your
hand



Use BZ 7208 software in your 2260 for sound or vibration FFT analysis when investigating machinery, for troubleshooting, pure tone investigation, product development, quality control and building vibration analysis. This hand-held FFT analysis system gives you single-channel, real-time operation (no data loss) with internal and external triggers. You can measure transient and continuous signals with a maximum frequency span of 20 kHz (minimum 156 Hz) There are 429 lines (better than 50 Hz resolution at 20 kHz span), and you can zoom down to 0.5 Hz resolution. You can see FFT autospectra, Lin or A-weighted, and compare a measured spectrum to stored reference spectra. PC software is also available for analysis, reporting and archiving.

Compliance with Standards

CE, C	CE-mark indicates compliance with: EMC Directive and Low Voltage Directive. C-Tick mark indicates compliance with the EMC requirements of Australia and New Zealand.
Safety	EN 61010-1 and IEC 61010-1: Safety requirements for electrical equipment for measurement, control and laboratory use. UL 3111-1: Standard for Safety - Electrical measuring and test equipment.
EMC Emission	EN 50081–1 and IEC 61000–6–3: Generic emission standard. Part 1: Residential, commercial and light industry. CISPR 22: Radio disturbance characteristics of information technology equipment. Class B Limits. FCC Rules, Part 15: Complies with the limits for a Class B digital device. Note: The above is guaranteed using accessories listed in this Product Data sheet only.
EMC Immunity	EN 50082–1 and IEC 61000–6–1: Generic immunity standard. Part 1: Residential, commercial and light industry. RF immunity implies that sound level indications of 40 dB or greater will be affected by no more than ±0.5 dB. EN 50082–2 and IEC 61000–6–2: Generic immunity standard. Part 2: Industrial environment. RF immunity implies that sound level indications of 55 dB or greater will be affected by no more than ±0.5 dB. Note: The above is guaranteed using accessories listed in this Product Data sheet only.
Temperature	IEC 60068-2-1 & IEC 60068-2-2: Environmental Testing. Cold and Dry Heat. Operating Temperature: < 0.5 dB, -10 to +50 °C (14 to 122 °F) Storage Temperature: -25 to +70 °C (-13 to 158 °F)
Humidity	IEC 60068-2-3: Damp Heat: 90% RH (non-condensing at 40 °C (104 °F)). Effect of Humidity: < 0.5 dB for 30% < RH < 90% (at 40 °C (104 °F) and 1 kHz)
Mechanical	Non-operating: IEC 60068-2-6: Vibration: 0.3 mm, 20 m/s ² , 10-500 Hz IEC 60068-2-27: Shock: 1000 m/s ² IEC 60068-2-29: Bump: 1000 bumps at 250 m/s ²
Calibration	Initial factory calibration traceable in conjunction with ISO 9001.

Specifications - 2260 Investigator with BZ7210

Specifications apply to 2260 Investigator fitted with the supplied microphone and input stage, and running BZ 7210 software

STANDARDS

Conforms with the following:

- IEC 651 (1979) Type 1 plus Amendment 1
- IEC 804 (1985) Type 1 plus Amendment 2

Conform to IEC 1260 (1995) and ANSI \$1.11-1986

- IEC 1260 (1995) Octave and ¹/₃-octave Bands Class 0
- ANSI \$1.4 (1983) Type 1
- ANSI \$1.43-199X Type 1 (Draft 1993)
- ANSI \$1.11-1986 Octave and ¹/₃-octave Bands, Order 4, Type 0-B, Optional Range

SUPPLIED MICROPHONE

Type 4189: Prepolarized Free-field $\frac{1}{2}$ " Microphone Nominal sensitivity: $-26\,\text{dB}\pm1.5\,\text{dB}$ re 1 V/Pa

Capacitance: 14 pF (at 250 Hz)

INPUT STAGE ZC 0026

Extension Cables: Up to 100 m in length between the input stage and the Type 2260 can be driven by the input stage

MEASURING RANGES

Linear Operating Range: 80 dB adjustable to give full-scale

readings from 70 dB to 130 dB in 10 dB steps Max. Peak Level: 3 dB above full scale reading

Upper Limit (RMS) for Crest Factor = 10: 17 dB below full scale

reading

Passive Attenuation: Microphone attenuator ZF 0023 (included)

effectively increases all full-scale readings by 20 dB

OCTAVE AND 1/3-OCTAVE BAND FILTERS

Octave Bands centre frequencies: $31.5\,\mathrm{Hz}$ to $8\,\mathrm{kHz}$ $^{1}/_{3}$ -octave Bands centre frequencies: $16\,\mathrm{Hz}$ to $12.5\,\mathrm{kHz}$

DETECTORS

Parallel detectors on every measurement:

A-weighted broad-band detector channel with three exponential time weightings (Fast, Slow, Impulse), one linearly averaging detector and one peak detector

C- or L-weighted (switchable) as above for A-weighted Octave and 1/3-octave band filters, pre-weighted either A-, C- or L-, each with a detector channel containing one linearly averaging detector and one exponentially averaging detector switchable between Slow or (with the following exceptions for $B \times T$ -product reasons) Fast:

1/3-octave centre frequency (Hz)	Time constant (ms)	Averaging time (ms)
100, 80 63	250	500
50, 40 31.5	500	1000
25, 20, 16	1000	2000 (Slow)

Overload detector which monitors the overload outputs of all the frequency weighted channels

INHERENT NOISE LEVEL

(Combination of electrical noise and microphone thermal noise at 20°C). Typical values with supplied microphone of nominal sensitivity:

Weighting	Electrical Noise (2260)	Thermal Noise (4189)	Combined Noise
"A"	12.3 dB	14.6 dB	16.6 dB
"C"	14.0 dB	15.3 dB	17.7 dB
Lin. 5 Hz–20 kHz	19.2 dB	15.3 dB	20.7 dB

MEASUREMENTS

V = frequency weightings C or L

X = frequency weightings A, C or L

Y = time weightings S, F or I

Z = time weightings S, F

N = number

For Display and Storage (Broadband)

Start Date	Start Time		
Stop Date	Stop Time	Measurem. No.	
Elapsed Time	No. of Pauses	Overload %	
Underrange %	L _{Apk(MaxP)}	L _{Vpk(MaxP)}	
#Peaks A>L	# PeaksV>L	L _{AE(ASEL)}	
L_{Aeq}	L_{Veq}	L _{Alm}	
L _{VIm}	L _{Veq-LAeq}	L _{Alm-LAeq}	
L _{ASTm3}	L _{AFTm3}	L_{AITm3}	
L _{VSTm3}	L _{VFTm3}	L _{VITm3}	
L _{ASTm5}	L _{AFTm5}	L _{AITm5}	
L _{VSTm5}	L _{VFTm5}	L_{VITm5}	
L _{ASMax}	L _{AFMax}	L_{AlMax}	
L _{ASMin}	L_{AFMin}	L_{AlMin}	
L _{VSMax}	L_{VFMax}	L_{VIMax}	
L _{VSMin}	L _{VFMin}	L _{VIMin}	
L _{XYN1}	L_{XYN2}	L_{XYN3}	
L _{XYN4}	L_{XYN5}	$L_{AEP,d}$	
Level Distribution	Cumulative Distribution		

For Display and Storage (Octave or ¹/₃-octave Bands)

 L_{XZMax} L_{XZMin}

Only for Display as Numbers or Bargraphs (Broad-band)

L _{AS(SPL)}	$L_{AF(SPL)}$	L _{AI(SPL)}
L _{VS(SPL)}	L _{VF(SPL)}	$L_{VI(SPL)}$
L _{AS(Inst)}	$L_{AF(Inst)}$	L _{AI(Inst)}
L _{VS(Inst)}	$L_{VF(Inst)}$	L _{VI(Inst)}
L _{AST3}	L _{AFT3}	L_{AlT3}
L_{VST3}	L _{VFT3}	L_{VIT3}
L _{AST5}	L _{AFT5}	L_{AlT5}
L _{VST5}	L_{VFT5}	L_{VIT5}
L _{Ank(Peak)}	L _{Vnk(Peak)}	

Only for Display as Numbers or Spectra (Octave or $^{1}/_{3}$ -octave Bands)

 $L_{XZ(SPL)}$ $L_{XZ(Inst)}$

The broad-band Level Distribution, Cumulative Distribution and Statistics L_{XYN1-5} are based upon sampling $L_{XY(Inst)}$ every 10 ms into 0.2 dB wide classes over 80 dB

CALIBRATION

Initial calibration is stored for comparison with later calibrations. Acoustic: Using Multifunction Acoustic Calibrator Type 4226, Pistonphone Type 4228 or Sound Level Calibrator Type 4231 Electrical (internal): Uses internally generated electrical signal combined with a keyed-in value of microphone sensitivity. Initial calibration is stored for comparison with later calibrations CIC (Charge Injection Calibration): Injects internally generated electrical signal in parallel with microphone diaphragm. Reference CIC ratio is stored for comparison with later CIC

PRESET MEASUREMENT TIME

Selectable from 1s to 99 h:59 m: 59 s in 1s steps

BACK ERASE

Up to the last 15s of data can be erased.

MEASUREMENT DISPLAYS

SLM: One main and five secondary parameters can be specified plus one analogue bar with zoom facilities **Cumulative Distribution** for broad-band plus one analogue bar

Level Distribution for broad-band. Class width can be specified. Also with one analogue bar. Zoom facilities provided

Profile: The last 15s of LAF(Inst) plus one analogue bar

Spectrum: Octave or $^{1}/_{3}$ -octave band spectrum + two broad-band

bars plus one peak bar. Zoom facilities provided.

The four graphical displays also have cursor read-out facilities

STORAGE SYSTEM

Internal hard disk: 32 Mbyte for application software, user set-

ups and data

Application Card for installation of application software External Memory Card for store/recall of measurement data (SRAM or SanDisk ATA Flash Cards)

MS-DOS® compatible file system (from ver. 3.3)

SERIAL PRINTER/OUTPUT

Set-ups and measurement data can be printed on an IBM® Proprinter® (or compatible), Portable Printer Type 2322 or 2318. The formats can be screen dumps, tables or graphs Measurement data can be output in spread sheet format or as a binary file for post processing on a PC

HELP AND USER LANGUAGES

Concise context-sensitive help throughout in English, German, French, Italian, Spanish

CLOCK

Back-up battery powered clock. Accuracy better than 1 minute per month

DISPLAY

Type: Transflective back-lit LCD 192×128 dot matrix with internal temperature compensation

INPUT STAGE CONNECTION Connector: 10-pin LEMO

AUX OUTPUTS (2 independent)

Can be set to:

LAF(Inst.) 0 to 4V DC signal updated 10 times per s

Meas. Status 0 or 5 V for triggering

Signal from amplified frequency weighted signal

AC INPUTS/OUTPUTS(2)

As output: Buffered, unweighted microphone signal

Output impedance: $2 \times 200 \,\Omega$

Maximum load: $47 k\Omega \parallel 200 pF$ (Short-circuit protected)

As input: Alternative to microphone input Connector: 3-pin LEMO (balanced input)

SERIAL INPUT/OUTPUT

Conforms to EIA ITIA 574 (RS 232), coupled as data terminal

equipment (DTE)

Connector: 9-pin D-type male

Baud rates: 1200, 2400, 4800, 9600, 19200, 38400 Word length: 8 bits, no parity or stop bits Handshake: None, XON/XOFF, RTS/CTS

PCMCIA INPUT/OUTPUT

Computer with PCMCIA/JEIDA standards release 1.0.

SETTLING TIME

From Power On: approximately 25 s

BATTERIES

Type: 6 × LR14/C-size 1.5 V alkaline

Lifetime (at 20°C): 5 to 9 hours continuous

EXTERNAL DC POWER SUPPLY

Voltage: regulated or smoothed 10 to 14 V, max. ripple 100 mV

Power: 3.5 W, current: 300 mA, Inrush current: 1000 mA

Socket: Ø5.5 mm with Ø2 mm pin (positive)

WEIGHT AND DIMENSIONS (as illustrated) 1.2 kg (with batteries), 375×120×52 mm

01/10

Ordering Information

Type 2260	Modular Precision Sound Analyzer	Type 7820	Evaluator –
Accessories in BZ 7210 Type 4189 ZC 0026	cluded with the platform Basic Sound Analysis Software Prepolarized Free-field 1/2" Microphone Input Stage	Type 2322 AO 1442 VD 4700 UL 1001/2/3	Portable Pr 9-pin to 25- 1 Mbyte SR 5/10/20 Mb
ZF 0023	20 dB Capacitive Attenuator	MAINS POWE	R SUPPLIES
UA 1236	Protective Cover	ZG 03 86	EU Version
DH 0696	Wrist Strap	ZG 0387	UK Version
KE 0342	Shoulder Bag (with room for 2260 and 4231)	ZG 0388	US Version
6×QB 0009	1.5 V LR 14/C size alkaline cells	MEASURING	

Optional Accessories

		KE 0371	Carrying Case for 2260 and accessories
CALIBRATION		UA 1404	Outdoor Microphone Kit
Type 4226	Multifunction Acoustic Calibrator	UA 0237	Large Round Windscreen
Type 4228	Pistonphone	UA 045 9	Small Round Windscreen
Type 4231	Sound Level Calibrator (fits in KE 0342)	UA 1317	Microphone Holder
EK 0462	Accredited Initial Calibration of Type 2260	AO 0440	AC input/output cable
LIC 0402	Accordance militar campitation of Type 2200	AO 0441	3 m Microphone Ext. Cable
INTERFACING		AO 0442	10 m Microphone Ext. Cable
Type 7815	Noise Explorer – data viewing software		

UA 0801

UA 0587

UA 0522

TRADEMARKS

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Brüel & Kjær reserves the right to change specifications and accessories without notice

Evaluator - data viewing and calculation software

9-pin to 25-pin PC or serial printer interface cable

5/10/20 Mbyte ATA Flash Memory Cards

Portable Printer

Small Tripod

Headphones Adaptor

Tripod

1 Mbyte SRAM Memory Card