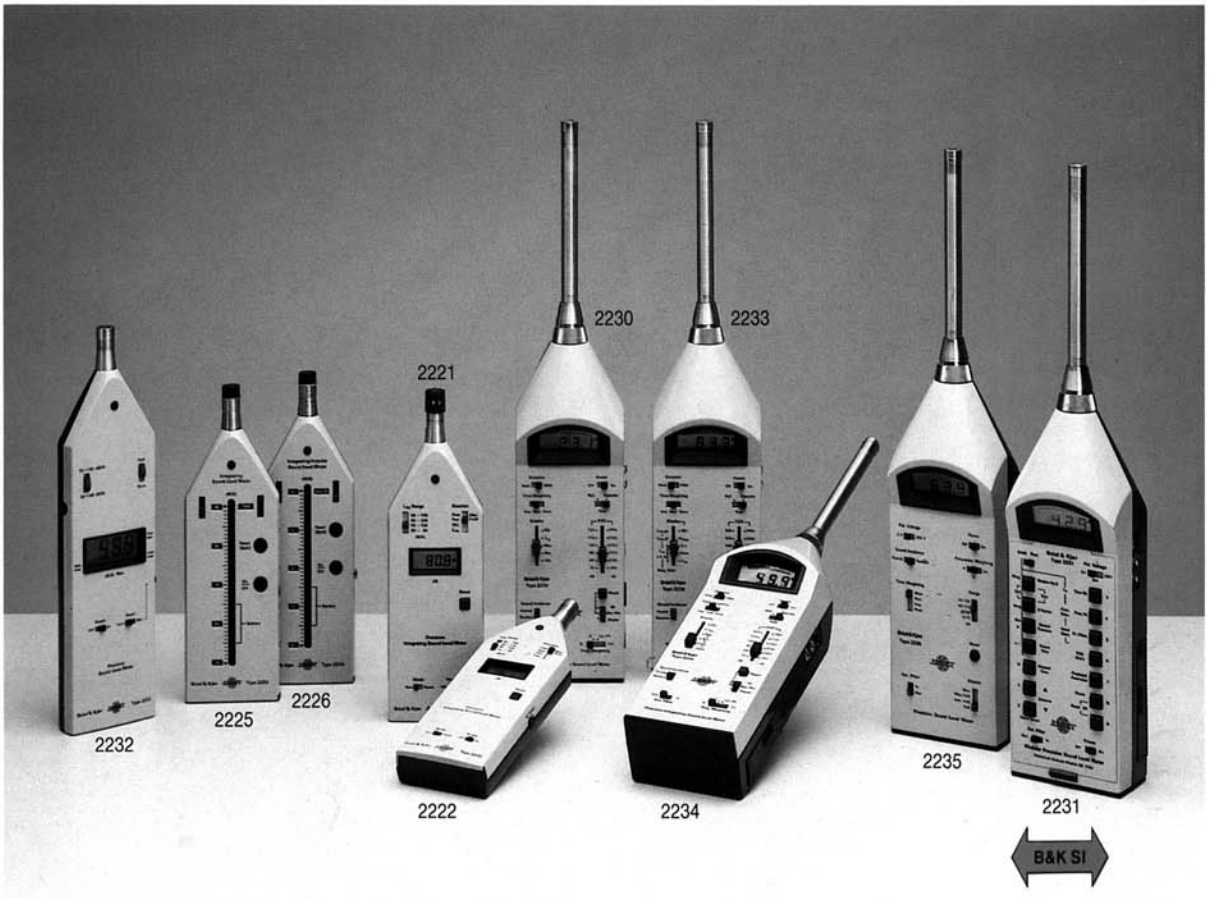
Sound Level Meters



Type 2232 Precision Sound Level Meter. IEC Type 1 instrument for precision sound measurements and noise surveys.

- A-weighting
- RMS Fast, Slow and Max. Hold; reset every 1 s or manually
- 34 to 130 dB A measuring range
- DC output for recording
- Slim-line, pocket format, only 460 g
- Windscreen UA 0459 and Random Incidence Adaptor DZ 9566 included

Type 2225 Integrating Sound Level Meter. IEC Type 2[1] instrument for general environmental and factory noise surveys, etc., and where assessment of the risk of hearing damage is important.

- A-weighting
- L_{eq} for fixed period of 60 s
- RMS Fast and Slow, and Peak Hold response
- 25 to 140 dB A measuring range
- 40 dB, linearly graduated, "thermometer" type display with 0,5 dB resolution
- DC output for recording
- Slim-line, pocket format. Weighs only 370 g
- Windscreen UA 0459 included. 3 m and 10 m Mic. Extension Cables **AO 0185** and **AO 0186** available

Type 2226 Integrating Impulse Sound Level Meter. IEC Type 2 (Impulse) instrument for general environmental and factory noise surveys, etc., and where assessment of the annoyance or subjective effects of impulsive noise is important.

- Identical to Type 2225 except that it has Impulse Hold instead of Peak Hold, and RMS Max. Hold can be chosen on all functions

Type 2221 Precision Integrating Sound Level Meter. IEC Type 1 instrument for precision sound measurement and assessment of occupational and community noise environments. Investigation of cyclical, fluctuating and impulsive noise as well as single noise events.

- Linear and A-weighting
- L_{eq} for periods up to 2,77 hours
- Sound Exposure Level, SEL
- Max. Hold, Fast and Peak response with manual reset function
- 25 to 145 dB A measuring range (40 to 145 dB for Max. Hold functions) in four overlapping 60 dB sub-ranges
- 3½-digit liquid crystal display. 0,1 dB resolution
- AC output for recording instantaneous A-weighted and Lin signal
- Windscreen UA 0459 and Random Incidence Adaptor DZ 9566 included. 3 m and 10 m Mic. Extension Cables **AO 0185** and **AO 0186** available

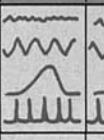
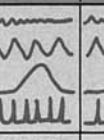
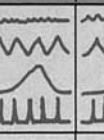
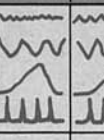
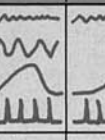
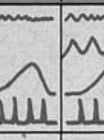
Type 2222 Precision Integrating Sound Level Meter. IEC Type 1 instrument for precision sound measurement and assessment of occupational and community noise environments.

- Identical to Type 2221 except that it has Max. Hold Slow instead of Max. Hold Fast

Type 2230 Precision Integrating Sound Level Meter. IEC Type 1 (Impulse) instrument for environmental certification and factory noise investigations, including cyclical, fluctuating and impulsive noise measurements, as well as assessment of the risk of hearing damage. 1/1- and 1/3-octave analysis using Filter Set Type 1624 or 1625.

- A-, C-, Lin. and All Pass weighting
- Five measuring modes, all simultaneously updated: L_{eq} and SEL (measuring period approximately 8 hours — limited by battery life only); the current 1 s Max. sound pressure level SPL (as required in IEC 651 and ANSI S1.4 standards); the maximum and minimum detected levels in the measuring period, Max. and Min. respectively
- RMS Fast, Slow, Impulse, and Peak response
- 24 to 130 dB A measuring range in six overlapping 70 dB sub-ranges. 30 to 150 dB A with 20 dB Attenuator included
- 4-digit liquid crystal display updated every second. 0,1 dB resolution. 60 dB quasi-analogue display of the instantaneous level in 2 dB steps, updated 64 times/second
- Reset, Max. and Min. Hold Reset, and Pause functions
- AC and DC outputs for recording
- Windscreen UA 0237 and Input Adaptor JJ 2614 included. 3 m, 10 m and 30 m Mic. Extension Cables AO 0027, AO 0028 and AO 0029 respectively, available

[1] Except for RMS Max. Hold

B & K Type no.		2232	2225	2226	2221	2222	2230	2233	2234	2235	2231[1]
Type of Noise	Continuous										
	Fluctuating, Erratic										
	Noise events										
	Impulsive										
Frequency Response	Linear	—	—	—	Peak only	Peak only	●	●	●	●	●
	Weighted	A	A	A	A	A	A;C	A;C	A;C	A;C	A;C
	Filters	—	—	—	—	—	1624/25	1624/25	1624/25	1624/25	1624/25/27
Measurement Modes	RMS[2]	F,S	F,S	F,S,I	—	—	F,S,I	F,S,I	F,S,I	F,S,I	F,S,I
	Peak	—	●	—	●	●	●	●	●	●	●
	Max. Hold	●	(Peak only)	●	F	S	●[3]	●	●[3]	●	●[3]
Averaging		—	60 s L_{eq}	60 s L_{eq}	L_{eq}, SEL	L_{eq}, SEL	L_{eq}, SEL	L_{eq}, SEL L_{FTm}, L_{lm}	L_{eq}, SEL	—	L_{eq}, SEL L_{lm}[4]
Dynamic range dB		70	60	60	60	60	70	70	70	70	70
Outputs		DC[5]	DC	DC	AC	AC	AC, DC	AC, DC	AC, DC	AC, DC	AC, DC Digital[6]
Complies with SLM standards	IEC 804 DIN 45655 Type	—	2	2	1	1	1	1[7]	—[8]	—	1[9]
	IEC 651/DIN Type	1	2[10]	2 (Imp)	1	1	1 (Imp)	1 (Imp)	—	1 (Imp)	1 (Imp)[9]
	ANSI S1,4 Type	S1 A	S2 A	S2 A	S1 A	S1 A	S1	S1	—	S1	S1[9]
Microphone Type		4176	4129	4129	4176	4176	4155	4155	4155	4176	4155
Microphone Polar. Voltage V		0	0	0	0	0	0	0	0	0–200	0–28–200
Battery Type (included)		2×IEC6LF22/9V	3×IECLR6/AA size				4×IECLR6/AA size				
Dimensions (H×W×D) cm		25×7×2	20×7×2				37×8×5				
Weight kg (lb)		0,46 (1,0)	0,37 (0,8)		0,4 (0,9)		0,86 (1,9)				
Mic. ext. Cable (option)		—	AO 0185 – AO 0186				AO 0027 – AO 0028 – AO 0029				

1) With Integrating Module BZ 7100
2) RMS time constant: Fast, F; Slow, S; Impulse, I;
3) Plus Min. Hold
4) Plus "Taktmaximal" level L_{FTm} with Module BZ 7102
5) AC instead of DC: option **WH 1242** (SD)
6) Option
7) Fulfils DIN 45645 (TA-Lärm)
8) Complies with Japanese proposed JIS standard
9) Type 0 using Mic. Type 4133 (IEC) or Type 4134 (ANSI) and Extension Cable AO 0027
10) Except for RMS Max. Hold

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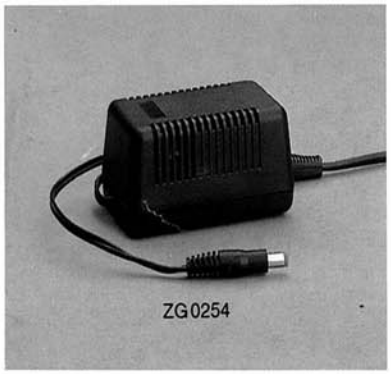
Type 2233 Precision Integrating Sound Level Meter. Same as Type 2230 but for measurements conforming to German "Takt-Maximalpegelverfahren".

- Measurement of L_{eq}, L_{lm} and L_{FTm} for determination of noise rating levels and effective levels according to DIN 45641, DIN 45645, VDI 2058 and TA-Lärm
- Updating interval 1, 3 or 5 s
- Displays measuring time instead of Min. Hold level

ZG 0254 Mains Power Supply and Charger for Sound Level Meters Types 2230, 2231, 2233, 2234, and 2235. Includes a battery box with 4 rechargeable Ni-Cd batteries QB 0032.



ZG 0254

Type 2234 Precision Integrating Sound Level Meter. Similar to 2230 but including measurement of *instantaneous* sound pressure level, sampled every second (conforming to Japanese standard), instead of the current *1 s Max* sound pressure level.

Type 2235 Precision Sound Level Meter. IEC Type 1 instrument for precision sound measurements including impulsive noise. 1/1- and 1/3-octave analysis using Filter Set Type 1624 or 1625.

- A-, C- and Lin weighting
- RMS Fast, Slow, Impulse and Peak response
- 24 to 130 dB A measuring range in four overlapping 70 dB sub-ranges. 20 dB Attenuator **ZF 0020** available for extended range to 150 dB
- Windscreen UA 0237 included. Input Adaptor JJ 2614 available

Type 2231 Modular Precision Sound Level Meter. IEC Type 1[11] (Impulse) instrument accepting interchangeable plug-in application modules for various noise investigations. 1/1- and 1/3-octave analysis using Filter Set Type 1624 or 1625. Infra- and ultra-sound analysis using Filter Set Type 1627. Type 2231 includes Integrating Module BZ 7100.

- 70 dB dynamic range, 73 dB pulse range
- May be used with almost any microphone in the B&K range

[11] With supplied Microphone Type 4155. Type 0 with optional Microphones Type 4133 (IEC) or 4134 (ANSI) and Extension Cable AO 0027

- A-, C-, Lin and All Pass weighting
- Frequency range: 2 Hz – 70 kHz (depends on selected microphone)
- Measuring range with supplied Microphone Type 4155: 24 to 130 dB A. 30 to 150 dB A with 20 dB Attenuator included.
- Digital output (with B&K Serial Interface module **ZI 9100**) for connection of printer or computer for further processing
- Windscreen UA 0237 and Input Adaptor JJ 2614 included

BZ 7100 Integrating Module for comprehensive noise investigations including cyclical, fluctuating and impulsive noise measurements, assessment of hearing damage risk, and single noise event measurement.

- Eight simultaneous measuring modes: MAXP (Max. Peak); PEAK (Max. Peak/1 s); INST (Sampled RMS/1 s); SPL (Max. RMS/1 s); MAXL (Max. RMS); MINL (Min. RMS); L_{eq} and SEL
- User-definable measuring period. Max. 100 h (or limited by battery life)
- Special functions include: Last second's signal cancellation to reject unwanted noise event; preprogrammed L_{eq} intervals for automatic plot of L_{eq} histograms; Digital output mode/format selection, etc.
- RMS Fast, Slow and Impulse
- Parallel RMS and Peak measurements
- AC and DC output for recording