

# Ease of Use in a Clever Package



## *Level Recorder* **LR-07**

- Records sound or vibration levels
- Records DC voltages
- External control of pen, paper feed, and marker functions
- Measurement with coordinated paper feed
- Operates in sync with level processing equipment



The level recorder LR-07 is ideal for a wide range of applications, including sound and vibration level recording, acoustic transducer measurements, and linear voltage recording

### Specifications

Applicable standards	JIS C 1512 Level recorders for sound level meters and vibration level
Input section	
Input impedance	50 kΩ, unbalanced
Voltage required for full-scale point	AC: 0.2 V to 10 V (RMS) DC: 0.5 V to 25 V
Maximum allowable input voltage	AC: 35 V (RMS) DC: 50 V
Recorder section	
Recording principle	Automatic balancing
Frequency range	Recording range 25 or 10 dB: 1 Hz to 100 kHz (tolerance ± 1 dB) Recording range linear: 1 Hz to 100 kHz (± 10 % of full-scale point) Recording range 50 dB: 1 Hz to 20 kHz (tolerance ± 0.5 dB, 1 dB at 1 Hz)
Dynamic characteristics	FAST, SLOW, VL (vibration level), FF (averaging time constant 10 ms)
Recording pen	Felt-tip pen LB-25A (RED)
Recording pen response	Exponential
Recording pen speed	400 mm/s or more
Recording paper(normal paper)	For level recording: RP-01D
Paper feed motor	Pulse motor
Paper feed rate (8 selectable steps)	0.01, 0.03, 0.1, 0.3, 1, 3, 10, 30 mm/s or external control (pulse drive) ; tolerance ± 2 % or less
Paper speed control measurement	Available in for 50 dB recording range Paper feed rate increase by factor 10 when input signal exceeds a preset trigger level (not valid at 30 mm/s, 10 mm/s, 3 mm/s, and external control) Trigger level settings: 10, 15, or 20 dB above lower measurement limit
Power requirements	Dry-cell batteries (IEC R20, size "D")×6, External power supply input
Ambient conditions	0 to +50 °C, max. 90 %RH, no condensation (when operated with dry-cell batteries) -10 to +50 °C, max. 90 %RH, no condensation (when operated with AC adapter or rechargeable battery pack)
Dimensions and weight	Approx. 121.5 (H) × 250 (W) × 32.2 (D)mm, Approx. 3.6 kg
Supplied accessories	Input cable NC-39A × 1 Recording paper RP-01D × 2 Dry-cell batteries (IEC R20, size "D") × 6 Carrying case × 1 Level recorder pen (RED) × 6 Spare pen holder × 1 Dual-sided adhesive tape × 1 Miniature screwdriver × 1 Calibration position sticker set × 1 Instruction manual × 1

### Optional equipment

Name	Model
Recording paper	RP-01D
Level recorder pen (RED)	LB-25A
AC adapter	NC-97
Rechargeable battery pack	DP-1240
Battery charger(for above battery packs)	KD-11A
BNC-RCA cable	CC-24
Car battery adapter	CC-82
Sync cable(1ch)	CC-11
Sync cable(2ch)	CC-11A
Chart winder	LB-23

### Versatile external control

Pen movement, paper feed start/stop, marker operation, and paper feed rate selection can be controlled from other equipment.

### Paper-feed controlled measurement

When the measured sound or vibration level exceeds a certain threshold, paper feed can be automatically increased for easier reading of the recorded information. This saves paper and is useful for example in train and airplane noise measurements or other situations where non-continuous events are to be recorded.

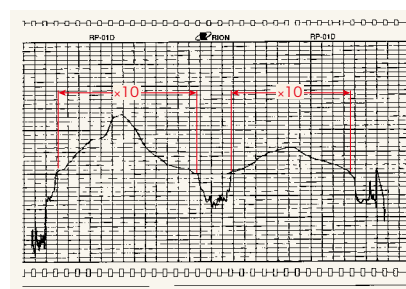


Fig. Paper feed rate increases by factor 10 when preset Trigger level is exceeded (using recording paper RP-01D)

### Flexible powering options

The LR-07 can be powered from two kinds of dry-cell batteries, two kinds of rechargeable battery packs, a car battery or an AC adapter. This makes it ready for use in any situation.



Rechargeable battery pack DP-1240

### Chart winder option

For long-term measurements, a chart winder with a matching design is available.



Chart winder LB-23

\* Specifications subject to change without notice.

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