SD card real time data Recorder, USB/RS232

SOUND LEVEL METER

Model: SL-4023SD



Your purchase of this SOUND LEVEL METER with SD CARD DATA RECORDER marks step forward for you into the field precision measurement. Although this METER is a complex and delicate instrument, its durable structure will allow many years of use if proper operating techniques are developed. Please read following the instructions carefully and always keep this within manual easy reach.



2. SPECIFICATIONS

| Ciucuit | Customs and alim of mismanness and CI | | |
|---------------------|--|--|--|
| Circuit | Custom one-chip of microprocessor LSI circuit. | | |
| Dicalay | LCD size : 52 mm x 38 mm | | |
| Display | | | |
| Measurement | LCD with green backlight (ON/OFF). | | |
| | 30 - 130 db. | | |
| Range Resolution | 0.1 dB. | | |
| | | | |
| Function | dB (A & C frequency weighting), | | |
| | Time weighting (Fast, Slow), | | |
| | Peak hold, Data hold | | |
| | Record (Max., Min.). | | |
| Accuracy | Characteristics of " A " frequency | | |
| (23 ± 5 °C) | weighting network meet IEC 61672 | | |
| | class 2. | | |
| | | | |
| | Under 94 dB input signal, the accuracy | | |
| | are: | | |
| | $31.5 \text{Hz} \pm 3.5 \text{ dB}$ | | |
| | 63 Hz ± 2.5 dB | | |
| | 125 Hz ± 2.0 dB | | |
| | 250 Hz ± 1.9 dB | | |
| | 500 Hz ± 1.9 dB | | |
| | 1 K Hz ± 1.4 dB | | |
| | 2 K Hz ± 2.6 dB | | |
| | 4 K Hz ± 3.6 dB | | |
| | 8 K Hz ± 5.6 dB | | |
| | | | |
| | Remark: | | |
| | The above spec. are tested under the | | |
| | environment RF Field Strength less | | |
| | than 3 V/M & frequency less than 30 | | |
| | MHz only. | | |
| | | | |

| Calibration VR | Build in external calibration VR, easy to calibrate on 94 dB level by screw driver. * Calibrated via external SOUND | | |
|-----------------|--|--------------------------------------|--|
| | CALIBI | RATOR (SC-941, optional). | |
| Calibrator | B & K (Bruel & kjaer), MULTIFUNCTION ACOUSTIC CALIBRATOR 4226. | | |
| Datalogger | Auto | 1 second to 3600 seconds | |
| Sampling Time | | @ Sampling time can set to 1 second, | |
| Setting range | | but memory data may loss. | |
| | Manual | Push the data logger button | |
| | | once will save data one time. | |
| | | @ Set the sampling time to | |
| | | 0 second. | |
| | | @ Manual mode, can also select the | |
| | | 1 to 99 position (Location) no. | |
| Memory Card | SD memo | ory card. 1 GB to 16 GB. | |
| Advanced | * Set cloc | k time (Year/Month/Date, | |
| setting | Hour/M | inute/ Second) | |
| | * Decima | point of SD card setting | |
| | * Auto po | wer OFF management | |
| | * Set bee | p Sound ON/OFF | |
| | | npling time | |
| | * SD men | nory card Format | |
| Over Indication | Show " - | | |
| Data Hold | Freeze the display reading. | | |
| Memory Recall | | n & Minimum value. | |
| Sampling Time | Approx. | 1 second. | |
| of Display | | | |
| Data Output | | JSB PC computer interface. | |
| | | ct the optional RS232 cable | |
| | | 02 will get the RS232 plug. | |
| | | ct the optional USB cable | |
| L | | I will get the USB plug. | |
| AC output | | rms corresponding to each | |
| | range ste | • | |
| | * Output | t impedance : 600 ohm. | |

| Frequency | Characteristics of A & C. |
|----------------------|---|
| Weighting Network | A weighting : |
| Network | The characteristic is simulated as "Human |
| | Ear Listing" response. Typical, if making |
| | the environmental sound level |
| | measurement, always select to A |
| | weighting. |
| | C weighting |
| | The characteristic is near the "FLAT" |
| | response. Typical, it is suitable for |
| | checking the noise of machinery (Q.C. |
| | check) & knowing the sound pressure |
| | level of the tested equipment. |
| Time | Fast - t= 200 ms |
| weighting | * "Fast" range is simulated the human ear |
| (Fast & Slow) | response time weighting. Slow - t = 500 ms |
| | * "Slow" range is easy to get the average |
| | values of vibration sound level. |
| Data hold | To freeze the measurement value. |
| Peak hold | To keep the peak (max.) measurement |
| | value. |
| Range selector | Auto range: 30 to 130 dB. |
| | Manual range : |
| | 3 range, 30 to 80 dB, 50 to 100 dB, |
| | 80 to 130 dB, 50 dB on each step, |
| | with over & under range indicating. |
| Frequency | 31.5 to 8,000 Hz. |
| Microphone | Electric condenser microphone. |
| type | 0.1.1.10.7.10.7.10.10.10.10.10.10.10.10.10.10.10.10.10. |
| Microphone | Out size, 12.7 mm DIA. (1/2 inch). |
| size | |

| Power off | Auto shut off saves battery life or manual off by push button. | |
|--------------------------|--|--|
| Operating Temperature | 0 to 50 ℃. | |
| Operating Humidity | Less than 85% R.H. | |
| Power Supply | *.Alkaline or heavy duty DC 1.5 V battery (UM3, AA) x 6 PCs, or equivalent. *.DC 9V adapter input. (AC/DC power adapter is optional). | |
| Power Current | Normal operation (w/o SD card save data and LCD Backlight is OFF) : Approx. DC 12 mA. When SD card save the data but and LCD Backlight is OFF) : Approx. DC 51 mA. * If LCD backlight on, the power consumption will increase approx. 30 mA. | |
| Weight | 489 g/1.08 LB. | |
| Dimension | 245 x 68 x 45 mm. (9.6 x 2.7x 1.9 inch). | |
| Accessories Included | * Instruction manual1 PC | |
| Optional Accessories | * Sound calibrator (94 dB), SC-941. * Sound calibrator (94/114 dB), SC-942. * Sound wind shield ball, SB-01 * SD Card (2 GB) * USB cable, USB-01. * RS232 cable, UPCB-02. * Data Acquisition software, SW-U801-WIN. * AC to DC 9V adapter. * Soft carrying case, CA-05A. * Hard carrying case, CA-06. | |