

S12 Sound Monitoring System

Pocket Sound Level Meter, Calibrator and Printer

Compliance with IEC 61672, Inbuilt GPS



www.svdigital.com
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SV Corporation

1-Ch Portable Digital Sound Level Meter

Leq / SPL / Le / Lpeak / Ln(%) / Digital Display

S12-1CH

Main Features

- ❖ Hand-Held Unit for General Purpose Sound Measurement
- ❖ Standards : IEC 61672-1 Class1/2 Digital Sound Processing
- ❖ IEC60651 Type1, ANSI S1.43 (R 2007)
- ❖ Inbuilt GPS, Digital Display, Touch type membrane switch panel
- ❖ Tough RF1 – shielded construction, ISO 9001-2000
- ❖ Measurement Range: 30 to 140 dBA, 143 dB peak
- ❖ Accuracy: Type1, ± 0.1 dB
- ❖ Displace Resolution: 0.1 dB
- ❖ High-pass Filter : 1Hz, 20Hz
- ❖ Freq. Weighting : Switchable to A, C and Linear
- ❖ Time Weighting : Fast, Slow, Impulse
- ❖ Exchange Rate: 3, 4, 5 dBA
- ❖ Integration Time : 0.125, 0.25, 0.5, 1, 2, 5, 10s
- ❖ Output: Connections to Portable Printer & to PC
- ❖ Memory: 4GB SD card, 24 MB 24 MB internal, 4GB Flash
- ❖ Power Supply: 2-AA Battery (Rechargeable Batteries)
- ❖ Measurement Values : SPL, Max SPL, Min SPL, Leq, L50(%) & L90(%) Run Time, Elapsed Time, Lpeak, Le

Octave Analysis (OCT)

- ❖ Nth Octave : 1/1, 1/3 Octave IEC 61672-1 Class1
- ❖ Window : Rectangular, Hanning, Flattop
- ❖ Average : Linear, Exponential, Peak



Complete setup: SLM, Printer & Calibrator

Industrial Meter Specification

| ITEM | DAQ SPEC |
|--------------------|--|
| A/D Converter | 24 Bit |
| Input Channel | 1 - Channel |
| Sensor Type | IEPE |
| Sampling Frequency | 22 kHz |
| Input Range | $\pm 5V(\text{peak})$ or $\pm 2.5V(\text{peak})$ |
| Dynamic Range | 27 - 144dB (50mV/Pa x 10Gain) |
| Input Signal Gain | 2, 4, 8, 16, 32, 64 |
| Temperature | -10°C to +55°C |

Digital Meter Technical Specifications

| | |
|----------------------|---|
| Model & Make | S11 & SV Corporation |
| Measurement Mode | Leq, SPL, Le, Lpeak, Ln(%), Max SPL, Min SPL, L 50 and L 90 RunTime, Elapsed Time |
| Standards | IEC 61672-1 Class1, IEC60651 Type1, ANSI S1.43 (R 2007) |
| Measurement Range | 30dB to 140 dBA, 143 dB peak |
| Accuracy | Type1, ± 0.1 dB |
| Displace Resolution | 0.1 dB |
| High-pass Filter | 1Hz, 20Hz |
| Frequency Weighting | Switch able to A, C and Linear |
| Time Weighting | Fast, Slow, Impulse |
| Exchange Rate | 3, 4, 5 dBA |
| Integration Time | 0.125, 0.25, 0.5, 1, 2, 5, 10s |
| Output | ? |
| Recording | Result data and Raw data |
| Memory | 4GB SD card & up to 16 GB, 24 MB Data Memory and Min 2 GB flash memory |
| Sensor Type | Microphone suitable to measure audio range, traffic & Community Noise (20-20kHz) |
| Contact Method | BNC connector |
| Indication | Digital Meter |
| Power Supply | 2-AA Battery (Rechargeable Batteries) |
| Dimensions | 150 mm X 80 mm X 35 mm |
| Weight | Less than 0.5 Kg |
| Temperature Range | -10 to 55 degree |
| Standard Accessories | Microphone Sensor, Cables, air filter, Carrying Case, Calibrator, Printer, Operation Manual |

Industrial Calibrator

SPEC

CA115



FEATURES

- ❖ Conforms to IEC61672-1:2013, IEC60942:2003 Class 2
- ❖ 1 kHz calibration frequency for all weighting networks
- ❖ 114 dB sound pressure level outputs
- ❖ Calibration accuracy ± 0.3 dB
- ❖ Designed with highly stable level and frequency
- ❖ CA115 for one-keypad operation
- ❖ Fits 1/2" microphones and 1/4" microphones with adaptor
- ❖ 2 years of warranty

| Technical Specifications | |
|-----------------------------------|--|
| Model & Make | CA115, BSWA make |
| Standard | IEC61672-1:2013, IEC60942:2003 Class 2, ANSI S1.40-1984, GB/T 15173-1994 |
| Sound Pressure Level/ Output | 114.0 dB |
| Accuracy | ± 0.3 dB |
| Frequency | 1000Hz $\pm 0.5\%$ |
| Microphone Diameter | According to IEC61094-4: 1/2" & 1/4" |
| Harmonic Distortion | <2% Stabilization Time: <10 s |
| Equivalent Free-field Level | -0.2 dB for 1/2" Microphones |
| Equivalent Random Incidence Level | +0.0 dB for 1/2", 1/4" |
| Reference Conditions | Ambient Temperature: 25°C (77°F) / Ambient Pressure: 101.3 kPa / Humidity: 55% RH / Effective Load Volume: 250 mm ³ |
| Environmental Conditions | Temperature: -10°C to +50°C (14°F -122°F) Pressure: 65 kPa to 108 kPa Humidity: 5 to 95%RH (non-condensing) |
| Power Supply | Batteries: 1.5 V LR6 (AA battery) $\times 2$ Lifetime: Typically 40 hours with alkaline batteries at 25°C (77°F) |
| Dimension | 48 \times 70 \times 70 mm |
| Weight | 180 g, including batteries |

Industrial Printer

SPEC

QS - 5802

Printer Features & Report Details



- ❖ Dot-matrix with Reachable Battery
- ❖ Logo printing, Pre & Past Calibration Data
- ❖ Printing of Noise Levels and GPS locations
- ❖ Print Date, Time, Serial Number of Device
- ❖ Print Model number and Accuracy of SLM
- ❖ Print all measured values of SLM
- ❖ Print Calibration values with date & time
- ❖ Report with Space for location & witness names, Signatures
- ❖ 2 years of warranty

| Technical Specifications | | |
|----------------------------------|-------------------------|---|
| Item | | Description |
| Model & Make | | QS - 5802 |
| Printing | Printing Method | Dot-matrix printing |
| | Total dots per line | Max.240dots |
| | Printable dots per line | Max.240dots |
| | Resolution | 8 dots/mm(203 dpi) |
| | Maximum print speed | 5.5mm/s ,1.2lines/s(12 dot-width fonts) |
| | Print head life | 1,500,000lines |
| Paper | Paper width | 58mm |
| | Print width | 48mm |
| | Paper roll out-diameter | 40mm |
| | Paper loading | Drop In |
| Button | | Power ON / OFF |
| Interface | | RS232 Serial+USB, Bluetooth/wifi |
| Bluetooth | | Ver 4.0 (Class 2, 4) |
| Paper cutter | | Manual cutter |
| Battery | | 7.4v 2000mA Li-ion rechargeable battery pack, 90min, 100Hours |
| Serial and battery charging port | | USB mini B type |
| Weight(g) | | 257 g (battery is included) |
| Dimension(mm) | | 120X97X43.3mm |

Company Specialized in Sound/Vibration

SV Corporation

RM. 302, Sangshin B/D, 719-1, (Yi-Dong), Jungbo-ro 11,
Sangrok-Gu, Ansan, Kyongki-Do, 426-863, KOREA
TEL : +82-31-501-4030 / FAX : +82-31-501-4032
<http://www.svdigital.com>, www.svsmall.com



Svib Software Technologies Pvt. Ltd.

(Branch office of SV Corporation)

#129, 4th J Cross Road, Above Jumbo xerox-3rd floor Kasturinagar
2nd Main Road, Bengaluru, Karnataka 560043, INDIA.
Mob: 9620751019

<http://www.svibtech.net>, www.svibtech.com