SPER SCIENTIFIC

# Integrating Sound Datalogger

## Calculates SPL and $L_{EQ}$

Sper Scientific's Integrating Sound Datalogger measures sound pressure level (SPL) according to A or C weighting and integrates the weighted SPL over an established length of time, such as an 8 hour workday, to calculate cumulative sound exposure ($L_{EQ}$). Test parameters are simultaneously displayed on a large, bright, backlit display, featuring 0.1 dB resolution and a bar graph. Up to 64,000 data records can be stored in the meter, saved, graphed, and processed on a computer through the USB interface and included software. The bidirectional USB port and software also enable control of the meter via its on-screen image. Features include SPL and $L_{EQ}$ sound level readings, fast and slow time weighting, A and C frequency weightings, and over-limit and under-limit alarms. A single dynamic 30 to 130 dB range eliminates the need to manually select ranges and prevents data errors during range changes in auto-ranging models. Accurate within ±1.0 dB, and meets or exceeds all other specs for an IEC 61672:2013 Class 2 and ANSI S1.4:2014 Type 2 meter. Calibrate in compliance with OSHA using Acoustical Calibrator 850016. Comes in a foam-lined protective carrying case, complete with a windscreen, USB computer connection power cable, instructions, calibration tool, recorder output plug, and 4 AA batteries, which provide about 30 hours of use and free downloadable software. N.I.S.T. Traceable Calibration Report available.

DIM: 10¾" × 3½" × 1½" (273 × 89 × 38 mm). WEIGHT: 14.6 oz (414 g).

| No. | Description |
|---|---|
| **850017** | **Intergrating Sound Datalogger** |
| **850017C** | **Intergrating Sound Datalogger Calibrated** |
| 850016 | 2-Pt. Acoustical Calibrator |
| 850017P | 16-ft Microphone Extension Cable |
| 840091 | Windscreen Replacement |
| 840093 | Field Tripod |

| Range | Res. | Accuracy |
|---|---|---|
| 30 to 130 dB | 0.1 dB | ±1.0 dB |




Scan this QR code to view our product demo.

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# 2-Pt. Acoustical Calibrator



## For calibration of all Sper Scientific digital sound meters and any sound meter with 1″ or ½″ microphone

Conforms to ANSI S1.4-1984 and IEC942 1988 Class 2 standards for acoustical calibrators. Simply place the calibrator onto the digital sound meter's microphone, turn on the calibrator, and adjust the meter's reading to either 94 or 114 dB. Operates at a frequency of 1KHz ±4% with an accuracy of ±0.5 dB. Built in battery check. Easily portable for field use, it comes with a carrying case, adaptors for ½" and 1" microphones, instructions and a 9V battery.

DIM: 5" × 1⅞" (127 × 48 mm). WEIGHT: 8.4 oz (238 g).

| No. | Description |
|---|---|
| 850016 | 2-Pt. Acoustical Calibrator |

5 Year Warranty

CE

RoHS Compliant 2002/95/EC

Scan this QR code to view our product demo.

| | |
|---|---|
| Output Sound Level: | 94 dB and 114 dB re 20 uPA under reference |
| Output Frequency | 1kHz ±4% |
| Accuracy | ± 0.5 dB |
| Operating Environment | 32 to 104°F (0 to40°C) |
| | Altitude up to 2000 meters |
| | 10 to 70% RH |
| Storage Environment | 14to140°F (-10to60°C) |
| | 10to90% RH |
| Test Conditions | 20°C |
| | 65% RH |
| Atmospheric Pressure | 1013 mbar |