

897 Sound Dosimeter System



SMS-2 Universal Sound Dosimeter Kit

The SMS-2 contains everything necessary to perform accurate surveys for OSHA and IEC requirements, along with the performance and reliability Simpson's test instruments have to offer.

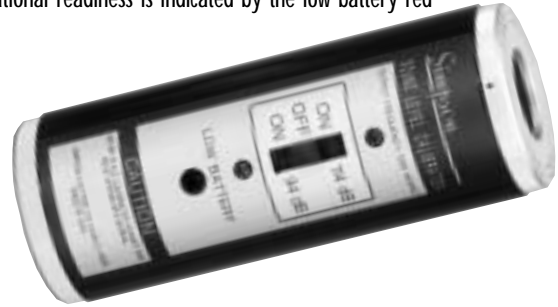
Kit includes:

- A. Rugged Carrying Case
- B. AC Adaptor (110, 120, 220, 240)
- C. RS-232 Serial Cable and Parallel Printer Cable
- D. Multi-Spline Wrench
- E. Calibration Screwdriver
- F. Microphone Clip
- G. Wind Screen
- H. 897 Dosimeter
- I. 9V Battery
- J. 887-2 Calibrator
- K. Nose Cone



887-2 Calibrator

The model 887-2 calibrator is selectable for either 94 dB or 114 dB sound pressure level at 1 KHz. The calibrator, immune to a wide range of temperature and humidity conditions, is compatible with 1/2" microphone. Operational readiness is indicated by the low battery red LED.



Specifications

GENERAL

Battery: One 9-volt battery, NEDA 1604A

Battery Life: Approximately 35 hours for 2 hours per day operation, with 9V alkaline battery

Mechanical Construction: Aluminum case includes acoustic cavity and provides shielding

Weight: 13.5oz (.35kg) - 897, 5.9 lbs. (2.68 Kg) SMS-2 Kit

Dimensions: 5 1/4" long, 2" diameter (131 mm long, 50mm diameter)

ACOUSTIC OUTPUT

Microphone: 0.52" inch diameter

Frequency: 1000Hz \pm 2%

Sound Pressure: Selectable at 94 or 114 dB

Reference Level: 0dB = 20 μ Pascals

Accuracy: \pm 0.5dB at reference conditions

Distortion: Less than 1%

ENVIRONMENTAL

Operating Temperature: 0° to 50°C

Storage Temperature: -40 to +60°C, battery removed

Temperature Coefficient: Less than \pm 0.05 dB/°C

Operating Relative Humidity: 0 to 90%, non-condensing

Reference Conditions: 23°C, 760mm Hg

Relative Humidity: 30 to 60%

STANDARD REPORT OUTPUT

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SIMPSON 897 DOSIMETER
SOUND ANALYSIS REPORT
TYPE 2A

CRITERION = 90 DB
THRESHOLD = 80 DB
EXCHANGE RATE = 3 DB
UNIT IDENTIFICATION # 25

JOB
NAME
LOCATION

START DATE: 21/FEB/95
START TIME: 14:24
CALIBRATION: 94.8 DBA 14:24 21/FEB/95 RANGE: 50/100 DB
CALIBRATION: 113.9 DBA 14:24 21/FEB/95 RANGE: 80/100 DB

MEASUREMENT SUMMARY:
RUN TIME = 00:15
HOLD TIME = 00:02
L EQ = 87.2 DBA
SPL MAX = 87.2 DBA
DOSE = 1.5%
140 DB PEAKS = 0

HISOTGRAM
HRS:MIN 50 60 70 80 90 100 110 120 130
14:25 + . . . + . . . + . . . + . . . + . . . + . . . + . . . +
14:25 ===== 88
14:25 ===== 86
14:35 ===== 76 HOLD
HRS:MIN + . . . + . . . + . . . + . . . + . . . + . . . + . . . +

HRS:MIN LAVG LMAX PEAKS RANGE
14:25 86.9 95.6 0 CHANGED
14:26 93.2 106.9 0 80/130
14:27 87.9 92.5 0 80/130
14:28 87.3 97.3 0 80/130
14:29 86.4 86.6 0 80/130
14:30 86.5 93.0 0 80/130
14:31 87.2 90.0 0 80/130
14:32 87.2 91.2 0 80/130
14:33 84.9 92.1 0 80/130
14:34 85.4 85.6 0 80/130
14:35 86.2 86.6 0 CHANGED
14:36 86.5 86.6 0 50/100 HOLD
14:37 60.9 71.5 0 50/100 HOLD
14:38 85.1 101.6 0 50/100
14:39 64.6 78.4 0 50/100

END OF REPORT
    
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Ordering Information

SOUND DOSIMETRY SYSTEM	Catalog No.	SOUND DOSIMETRY SYSTEM	Catalog No.	ACCESSORIES	Catalog No.
897 Universal Noise Dosimeter	12645	887-2 Calibrator	12648	RS-232 Serial Cable for 897	02233
SMS-2 Universal Noise Dosimeter Kit	12646			Parallel Printer Cable for 897	02234
				Case, Molded Plastic	45021