



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 Adapter (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.



STANDARD REPORT OUTPUT

SIMPSON 897 DOSIMETER SOUND ANALYSIS REPORT TYPE 2A									
CRITERION = 90 DB									
THERSHOLD = 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	+	+	+	+	+	+	+	+	+
14:230	===== 88								
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									

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

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 1%

Sound Pressure: Selectable at 94 or 114 dB

Reference Level: 0dB = 20 μ . Pascal's

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%

Specifications subject to change without notice.