

Sound/Noise Measuring Systems

Sound Level Systems

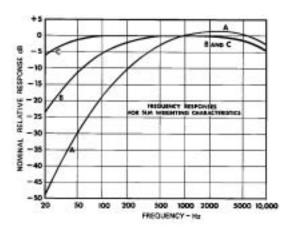
Simpson Type 2 sound level systems come in a variety of configurations to meet any noise measurement requirements. Each system is composed of several components designed to work together as one integrated test instrument and output jacks that will supply an AC RMS or DC Volt signal.

- Meets IEC 651 and ANSI S1.4-1983 Meters
- Meets OSHA and Walsh-Healy Noise Control Specifications
- Quickly and Accurately Measures Sound Levels in Factories, Offices, Etc.
- Full coverage 40-140 dB with special 85-115 dB OSHA range
- Impact-resistant case contoured to minimize sound energy field reflections
- Operates 40 hours on a 9V battery
- AC and DC voltage jacks for recorder, analyzer and tester Interface
- Built-in tripod mount

The American National Standards Institute (ANSI) provides for three weighting curves: "A ", "B", and "C".

The "A" weighted curve more closely corresponds to the response of the ear and is specified by OSHA. The "C" curve is essentially a "flat" frequency response and can be used in conjunction with a "fast response for an approximate indication of impulse noise levels. Low Frequency noises are better monitored by the "C" curve than the "A" curve. Low frequency sounds need to be louder to be heard.

The chart below shows the relationship between frequency and relative response.



884-2 Sound Level Meter

- Rugged solid-state reliability,
- "A" weighting
- Battery Operated



886-2 Multi Weight Sound Level Meter

- Rugged solid-state reliability,
- "A", "B" and "C" weighting
- Detachable microphone
- Fast and slow response



890-2 Calibrator



Sound pressure level calibrators are used before or after taking measurements with sound level meters and noise dosimeters. The 890-2 can adjust Simpson models 886-2 and 884-2 or other sound level meters with a 1" diameter Microphone. The 890-2 provides a constant 94 dB or 114 dB sound pressure level at 1 KHz (0 dB = 0.0002 Mbar). Calibrator is immune to a wide range of temperature and humidity conditions while maintaining tight output level tolerances.





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MADE IN



Sound/Noise Measuring Systems

884-2 TYPE S2A/886-2 TYPE 2

Specifications

GENERAL	
Physical:	3.0" x 8.2" x 1.9" (77 x 208 x 47mm)
Weight:	1.25 lbs (.57kg)
Construction:	Molded ABS Plastic Housing
POWER REQUIREME	•
Battery type:	(1) 9V NEDA 1604A
Battery life:	40 hrs. (approx)
, , , , , , , , , , , , , , , , , , ,	
TEMPERATURE RANG	
Operating: Storage:	-10° to 50°C -40° to 60°C
Temp. influence:	-40 10 00 C +/-0.015 dB/°C @ 1KHz
Operating humidity:	+/-0.5dB 0 to 90%
	+7-0.5db 0 10 7070
SOUND LEVEL	
Ranges:	40 to 140 dB
Reference:	OdB = 20m Pascals
Accuracy: Weighting:	meets ANSI S1.4-1983
weighting.	884-2 type S2A (only): "A" (external filter for flat response)
	886-2 type 2 (only): A, B,C, (external filter for flat response)
MICROPHONE	
Type:	condenser type L size per ANSI S1.12-1967 350Ω +/-20% @ 23°C
Impedance: Characteristics:	omnidirectional, angle of incidence approximates
Undracter istics:	random response equal to 70°
	Tanuoni response equal to 70
SIGNAL OUTPUT	
External filter:	120mV RMS at meter reading of +10dB
RMS Output:	1.00V RMS at meter reading of + 10dB
dB Output:	1.5 VDC at meter reading of + 10dB
Calibration:	frequency=1000Hz @ 94dB on the 90 dB range, 114 dB on the 110 dB range.
	Screwdriver adjustable (from side of case)
	שורשעווזידו מטןעאנמאוד (ווטווו אועל טו נמאל)
METER MOVEMENT	
Type:	Pivot and Jewel, 2 1/2" dial;
Scale:	-10 to +10 dB w/(15) 1dB markings
Accuracy:	2% Classe - 2.5 dD to a 500mm tana kumt of 1000Lb
Response time:	Slow = 2.5 dB to a 500ms tone burst of 1000Hz
OUTPUT JACK	Fast = 2.0 dB to a 200ms tone burst of 1000Hz
Type:	Switchcraft # 750(0.141"dia.) f/external filter, # 850(0.097" dia.) f/dB
ւյիս։	and RMS output
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MODEL 890-2 CALIBRATOR

Specifications

ACOUSTIC OUTPUT	
Frequency:	
Sound Pressure Level:	
ACCURACY	
ACCURACY Frequency:	

Distortion: Reference:

POWER REQUIREMENTS Battery Type: Battery Life:

ENVIRONMENTAL

Operating Temperature: Output Temperature Coefficient: Relative Humidity: Relative Conditions:

PHYSICAL Construction:

Dimensions: Weight:

61% 60.5dB at reference condition <2% 0dB = 0.0002m bar

(1) 9V NEDA 1604 35 hrs approx.

1000Hz 61% 94dB, 114dB

0° to 50°C <-0.05dB/°C 0-90% 23°C, 760mmHg, 30-50% relative humidity

aluminum housing 5.25" long x 2" diameter, (13 x 5cm) 14oz (400g)

Breaking ground determines the high technology that Simpson offers its customers. Simpson innovated the use of Lucite-illuminated meters in order to provide better visibility. The first compact, all purpose volt-ohm milliameter, the 260, became a standard for military use in World War II. In fact, a veteran recently called and requested service on a 260 unit that was purchased in 1947.

Now into the 21st century, Simpson Electric still upholds its reputation as a groundbreaker, introducing products that continue to enhance the Test Equipment market.

ACCESSORIES	Catalog No.	
25' microphone cable for 886-2	00198	
Microphone for 886-2	00183	
Tripod mount microphone		
holder for 00183 microphone	00184	
Case, Molded Plastic	45022	

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Ordering Information

SOUND LEVEL
Model 884-2 Model 886-2
Model 886-2

METERS Catalog No. Catalog No. w/890-2 calibrator 40006 40007

SOUND LEVEL CALIBRATORS Model 890-2

Catalog No. 12890



珠海科尔迈测试设备有限公司 ZHUHAI KEERMAI TESTING Co.LTD TEL:0756-3353658 FAX:0756-3361895

w/case 40003

40004