



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 = 0.0002Mbar).

Calibrator is immune to a wide range of temperature and humidity conditions while maintaining tight output level tolerances.



Extra Microphone for 886-2 Catalog No. 00183	
Microphone Cable for 886-2 Catalog No. 00198	
Tripod Mount Microphone Holder Catalog No. 00184	

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 comes with the output jacks that will supply an AC RMS or DC Volt signal.

- Meets IEC 651 and ANSI S1.4-1983 type 2 instruments.
- 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

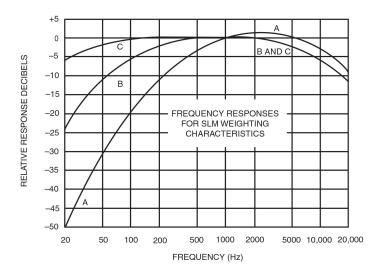


The American National Standards Institute (ANSI) provides for three weighting curves: "A ", "B", and "C".

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.



Ordering Information		
SOUND LEVEL METERS	Catalog Number w / case	Catalog Number w / 890-2 Calibrator
Model 884-2	40003	40006
Model 886-2	40004	40007
	Catalog Number	
Model 890-2	12890	
Accessories	Catalog Number	
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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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		
DOWED DECUMPANTO			
POWER REQUIREME			
Battery Type	(1) 9V NEDA 1604A		
Battery Life	40 hrs. (approx)		
TEMPERATURE RANGE			
Operating	-10° to 50°C		
Storage	-40° to 60°C		
Temp. Influence	+/-0.015 dB/°C @ 1KHz		
Operating Humidity	+/-0.5dB 0 to 90%		
operating framidity	17 0.00B 0 to 00 //		
SOUND LEVEL			
Ranges	40 to 140 dB		
Reference	0dB = 20μ Pascals		
Accuracy	meets ANSI S1.4-1983 Type 2 instruments		
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)		
MICDODUONE			
MICROPHONE	Condenser type L size per ANSI S1.12-1967		
Type	350Ω +/-20% @ 23°C		
Impedance	<u> </u>		
Characteristics	omnidirectional, angle of incidence approximates random 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)		
METER MOVEMENT			
METER MOVEMENT Type	Pivot and Jewel, 2 1/2" dial		
Scale	-10 to +10 dB w/(15) 1dB markings		
	2%		
Accuracy Response Time	Slow = 2.5 dB to a 500ms tone burst of 1000Hz		
Response Time	Fast = 2.0 dB to a 200ms tone burst of 1000Hz		
OUTDUT IACK			
OUTPUT JACK	Cuitabaratt # 750/0 144"dia \ floytarpal filtar # 050/0 007" dia \ fldD and DMC autout		
Туре	Switchcraft # 750(0.141"dia.) f/external filter, # 850(0.097" dia.) f/dB and RMS output		



Model 890-2 Calibrator		
Specifications		
ACCOUSTIC OUTPUT	T	
Frequency	1000Hz, ±1%	
Sound Pessure Level	94dB, 114dB	
ACCURACY		
Frequency	±1%	
Sound Level	±0.5dB at reference condition	
Distortion	<2%	
Reference	0dB = 0.0002m bar	
POWER REQUIREMENTS		
Battery Type	(1) 9V NEDA 1604	
Battery Life	Approximately 35 hours	
ENVIRONMENTAL		
Operating Temperature	0° to 50°C	
Output Temperature Coefficient	±0.05dB/°C	
Relative Humidity	0-90%	
Relative Conditions	23°C, 760mmHg, 30-60% relative humidity	
PHYSICAL		
Construction	Aluminum housing	
Dimensions	5 1/4" long x 2" diameter, (131 mm long x 50 mm diameter)	
Weight	13.5oz (0.35kg)	