

## 884-2 & 886-2 Sound/Noise Measuring Systems

|                                                                                   |                                                                                                                                                                               |
|-----------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|  | <p><b>884-2 Sound Level Meter</b></p> <ul style="list-style-type: none"> <li>• Rugged solid-state reliability</li> <li>• "A" weighting</li> <li>• Battery Operated</li> </ul> |
|-----------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

|                                                                                                                                                                                                                                                 |                                                                                     |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
| <p><b>886-2 Multi Weight Sound Level Meter</b></p> <ul style="list-style-type: none"> <li>• Rugged solid-state reliability</li> <li>• "A" , "B" and "C" weighting</li> <li>• Detachable microphone</li> <li>• Fast and slow response</li> </ul> |  |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|

|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                                                                                      |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------|
| <p><b>890-2 Calibrator</b></p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                |  |
| <p>Sound pressure level calibrators are used before or after taking measurements with sound level meters and noise dosimeters.</p> <p>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).</p> <p>Calibrator is immune to a wide range of temperature and humidity conditions while maintaining tight output level tolerances.</p> |                                                                                      |

## 884-2 & 886-2 Sound/Noise Measuring Systems

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|---------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
| <p><b>Extra Microphone for 886-2</b><br/><b>Catalog No. 00183</b></p>     |   |
| <p><b>Microphone Cable for 886-2</b><br/><b>Catalog No. 00198</b></p>     |   |
| <p><b>Tripod Mount Microphone Holder</b><br/><b>Catalog No. 00184</b></p> |  |

### 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

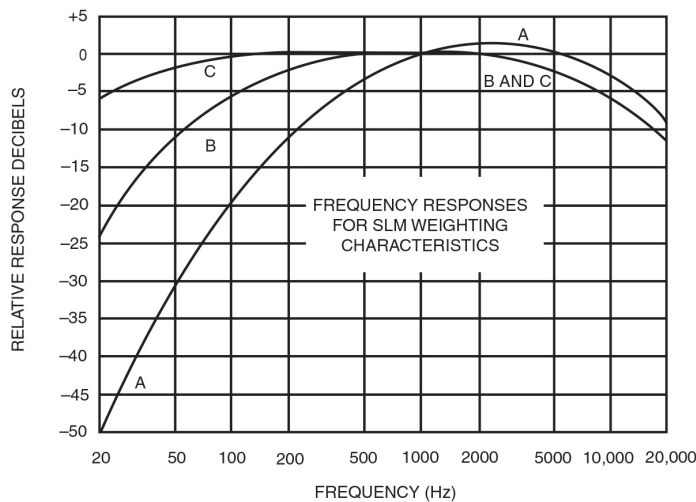
## 884-2 & 886-2 Sound/Noise Measuring Systems

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<br>w / case | Catalog Number<br>w / 890-2 Calibrator |
| Model 884-2                                         | 40003                      | 40006                                  |
| Model 886-2                                         | 40004                      | 40007                                  |
|                                                     |                            |                                        |
|                                                     | Catalog Number             |                                        |
| Model 890-2                                         | 12890                      |                                        |
|                                                     |                            |                                        |
| <b>Accessories</b>                                  | 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                      |                                        |

## 884-2 & 886-2 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 REQUIREMENTS

|              |                   |
|--------------|-------------------|
| 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%     |

##### 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)<br>886-2 type 2 (only): A,B,C, (external filter for flat response) |

##### MICROPHONE

|                 |                                                                               |
|-----------------|-------------------------------------------------------------------------------|
| Type            | Condenser type L size per ANSI S1.12-1967                                     |
| Impedance       | 350Ω +/-20% @ 23°C                                                            |
| 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.<br>Screwdriver adjustable (from side of case) |

##### METER MOVEMENT

|               |                                                                                                |
|---------------|------------------------------------------------------------------------------------------------|
| Type          | Pivot and Jewel, 2 1/2" dial                                                                   |
| Scale         | -10 to +10 dB w/(15) 1dB markings                                                              |
| Accuracy      | 2%                                                                                             |
| Response Time | Slow = 2.5 dB to a 500ms tone burst of 1000Hz<br>Fast = 2.0 dB to a 200ms tone burst of 1000Hz |

##### OUTPUT JACK

|      |                                                                                         |
|------|-----------------------------------------------------------------------------------------|
| Type | Switchcraft # 750(0.141"dia.) f/external filter, # 850(0.097" dia.) f/dB and RMS output |
|------|-----------------------------------------------------------------------------------------|

## 884-2 & 886-2 Sound/Noise Measuring Systems

### Model 890-2 Calibrator

#### Specifications

##### ACCOUSTIC OUTPUT

|                      |                   |
|----------------------|-------------------|
| Frequency            | 1000Hz, $\pm 1\%$ |
| Sound Pressure Level | 94dB, 114dB       |

##### ACCURACY

|             |                                           |
|-------------|-------------------------------------------|
| Frequency   | $\pm 1\%$                                 |
| Sound Level | $\pm 0.5\text{dB}$ 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 | $\pm 0.05\text{dB}/^\circ\text{C}$      |
| 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)                                           |



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Электрон  
Связь**

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