

Comparison of REED Sound Meters



MODEL	R1920	R1620	R8050	R8060	R8080	R8070SD	R8085
Measuring Ranges	30 to 130dB	30 to 130dB	30 to 130dB Low: 30 to 100dB High: 60 to 130dB	30-130dB Low: 30-90dB Med: 50-110dB High: 70-130dB	30 to 130dB Low: 30 to 90dB Med: 50 to 110dB High: 70 to 130dB	30 to 130dB Low: 30 to 80dB Med: 50 to 100dB High: 80 to 130dB	35 to 130dB Low: 35 to 80dB High: 80 to 130dB Dose: 70 to 130dB
Dynamic Range	N/A	N/A	70dB (in each range)	60dB (in each range)	60dB (in each range)	50dB (in each range)	50dB (in each range)
Accuracy	±1.5dB	±1.5dB (@ 1kHz)	±1.4dB	±1.4dB	±1.4dB	31.5Hz ±3.0dB, 63Hz ±2.0dB, 125Hz ±1.5dB, 250Hz ±1.5dB, 500Hz ±1.5dB, 1kHz ±1.0dB, 2kHz ±2.0dB, 4kHz ±3.0dB, 8kHz ±5.0dB	31.5Hz ±3.0dB, 63Hz ±2.0dB, 125Hz ±1.5dB, 250Hz ±1.5dB, 500Hz ±1.5dB, 1kHz ±1.0dB, 2kHz ±2.0dB, 4kHz ±3.0dB, 8kHz ±5.0dB
Resolution	0.1dB	0.1dB	0.1dB	Digital: 0.1dB Analog: 2dB	Digital: 0.1dB Analog: 2dB	0.1dB	0.1dB
Response Time	500mS	Fast: 500mS Slow: 1s	500mS	Digital: 500mS Analog: 100mS	Digital: 500mS Analog: 50mS	500mS	Approx. 1 sec
Frequency Range	31.5Hz to 8kHz	31.5Hz to 8kHz	31.5Hz to 8kHz	20Hz to 8kHz	20Hz to 8kHz	31.5Hz to 8kHz	31.5Hz to 8kHz
Frequency Weighting	A	A/C	A/C	A/C	A/C	A/C	A/C
Time Weighting	Fast/Slow (125mS and 1s)	Fast/Slow (125mS and 1s)	Fast/Slow (125mS and 1s)	Fast/Slow (125mS and 1s)	Fast/Slow (125mS and 1s)	Fast/Slow (125ms and 1s)	Fast/Slow (125ms and 1s)
Microphone	0.5" (12.7mm) electret condenser	0.5" (12.7mm) electret condenser	0.5" (12.7mm) electret condenser	0.5" (12.7mm) electret condenser	0.5" (12.7mm) electret condenser	0.5" (12.7mm) electret condenser	0.5" (12.7mm) electret condenser
Analog Bargraph	N/A	N/A	N/A	Yes (30 segment)	Yes (30 segment)	N/A	N/A
Display	4-digit LCD	Enhanced EBTN LCD	4-digit LCD	4-digit LCD	4-digit LCD	4-digit LCD	4-digit LCD
Display Backlight	Yes	Yes	Yes	N/A	Yes	Yes	Yes
Data Hold	Yes	Yes	Yes	N/A	N/A	Yes	Yes
Min	Yes	N/A	N/A	N/A	Yes	Yes	Yes
Max	Yes	N/A	Yes	N/A	Yes	Yes	Yes
Alarm Indicators	Under and Over (visual on-screen)	N/A	Over (visual on-screen)	Under and Over (visual on-screen)	Under and Over (visual on-screen)	Under and Over (visual on-screen)	Over (visual on-screen)
Datalogging Capabilities	N/A	Yes (w/Smart Series App)	N/A	N/A	Yes	Yes	Yes
Real-Time Clock and Date Stamp	N/A	Yes (w/Smart Series App)	N/A	N/A	Yes	Yes	Yes
Selectable Sampling Rate	N/A	Yes	N/A	N/A	Yes (between 1s and 60s)	Yes (1, 2, 5, 10, 30, 60, 120, 300, 600, 1800, 3600 seconds)	Yes (1, 2, 5, 10, 30, 60, 120, 300, 600, 1800, 3600s)
Internal Memory	N/A	N/A	N/A	N/A	1mb (64,000 data-points)	N/A	N/A
External Memory	N/A	N/A	N/A	N/A	N/A	Yes, expandable up to 16GB with SD card (optional)	N/A
Kick Stand	N/A	N/A	N/A	N/A	N/A	Yes	N/A
Tripod Mountable	N/A	Yes	Yes	Yes	Yes	Yes	Yes
Magnetic Backing	N/A	Yes	N/A	N/A	N/A	N/A	N/A
Overrange Indicator	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Low Battery Indicator	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Power Supply	3 x AAA Batteries	4 x AAA Batteries	9V Battery	9V Battery	4 x AAA Batteries	6 x AA Batteries or AC Adapter (optional)	3 x AAA batteries
Battery Life	Approx 50 hours	Approx 50 hours (Sampling Time Dependent)	Approx 50 hours	Approx 50 hours	Approx 50 hours	Sampling Time Dependent	N/A
Output	N/A	Bluetooth® 5.0	N/A	Yes (AC/DC)	Yes (AC/DC)	Yes (AC)	Yes, RS-232/USB (optional)
Bluetooth® Range	N/A	Up to 246' (75m)	N/A	N/A	N/A	N/A	N/A
Max # of Connected Devices	N/A	6	N/A	N/A	N/A	N/A	N/A
PC Connectivity	N/A	N/A	N/A	N/A	USB	N/A	USB Cable (R8085-USB, optional)
Software	N/A	REED Smart Series App	N/A	N/A	N/A	N/A	PC Software (R8085-PC, optional)
Software OS Compatability	N/A	IOS, Android	N/A	N/A	Windows XP / Vista/7/8/10	N/A	Windows XP/Vista/7/8/10
App Supported Languages	N/A	English, French	N/A	N/A	N/A	N/A	N/A
Product Certifications	CE	CE, UKCA, FCC, IC ID	CE, IEC 61672-1 Class 2, ANSI S1.4-1983	CE, IEC 61672-1 Class 2	CE, IEC 61672-1 Class 2, ANSI S1.4 Type 2	CE, IEC 61672-1-2013, Class 2	CE, IEC61252, ANSI S1.25 for Noise Dose and Sound Exposure Meters, IEC 61672 Class 2/ANSI S1.4 Type S for Sound Level Meters
Operating Temperature	32 to 122°F (0 to 50°C)	32 to 104°F (0 to 40°C)	32 to 104°F (0 to 40°C)	32 to 104°F (0 to 40°C)	32 to 104°F (0 to 40°C)	32 to 122°F (0 to 50°C)	32 to 122°F (0 to 50°C)
Storage Temperature	14 to 140°F (-10 to 60°C)	-4 to 140°F (-20 to 60°C)	14 to 140°F (-10 to 60°C)	14 to 140°F (-10 to 60°C)	14 to 140°F (-10 to 60°C)	14 to 140°F (-10 to 60°C)	14 to 140°F (-10 to 60°C)
Operating Humidity	10 to 80% RH	10 to 90% RH	10 to 90% RH	10 to 90% RH	10 to 90% RH	<85% RH	<85% RH
Operating Altitude	6561' (2000m)	6561' (2000m)	6561' (2000m)	6561' (2000m)	6561' (2000m)	6561' (2000m)	6561' (2000m)
Dimensions	5.9 x 2 x 1.1" (150 x 52 x 27mm)	7.1 x 1.5 x 1" (180 x 38 x 25mm)	8.3 x 2.2 x 1.3" (210 x 55 x 32mm)	10.2 x 2.2 x 1" (258 x 55 x 25mm)	10.4 x 2.5 x 1" (264 x 63 x 25mm)	9.7 x 2.7 x 1.8" (245 x 68 x 45mm)	4.2 x 2.3 x 1.0" (107 x 58 x 25mm)
Weight	4.1 oz (116g)	3.5 oz (100g)	8.1 oz (230g)	6.5 oz (185g)	8.8 oz (245g)	0.7 lb (320g)	4.3 oz (122g)

[Learn More](#)

[Learn More](#)

[Learn More](#)

[Learn More](#)

[Learn More](#)

[Learn More](#)

[Learn More](#)