

Comparison of REED Sound Meters



	R1920	R8050	R8060	R8080	SD-4023
Measuring Ranges	30-130dB	30-130dB Low: 30-100dB High: 60-130dB	30-130dB Low: 30-90dB Med: 50-110dB High: 70-130dB	30-130dB Low: 30-90dB Med: 50-110dB High: 70-130dB Auto: 30-130dB	30-130dB Low: 30-90dB Med: 50-100dB High: 80-130dB Auto: 30-130dB
Dynamic Range	N/A	70dB (in each range)	60dB (in each range)	60dB (in each range)	50dB (in each range)
Accuracy	±1.5dB	±1.4dB	±1.4dB	±1.4dB	31.5Hz ± 3.5dB, 63Hz ± 2.5dB, 125Hz ± 2.0dB, 250Hz ± 1.9dB, 500Hz ± 1.9dB, 1kHz ± 1.4dB, 2kHz ± 2.6dB, 4kHz ± 3.6dB, 8kHz ± 5.6dB
Resolution	0.1dB	0.1dB	Digital: 0.1dB Analog: 2dB	Digital: 0.1dB Analog: 2dB	0.1dB
Response Time	500mS	500mS	Digital: 500mS Analog: 100mS	Digital: 500mS Analog: 50mS	500mS
Frequency Range	31.5Hz to 8kHz	31.5Hz to 8kHz	20Hz to 8kHz	20Hz to 8kHz	31.5Hz to 8kHz
Frequency Weighting	A	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 (200mS and 500mS)
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
Digital Analog Bargraph	N/A	N/A	Yes (30 segment)	Yes (30 segment)	N/A
Display	4-digit LCD	4-digit LCD	4-digit LCD	4-digit LCD	4-digit LCD
Backlit Display	Yes	Yes	N/A	Yes	Yes
Data Hold	Yes	Yes	N/A	N/A	Yes
Min	Yes	N/A	Yes	Yes	Yes
Max	Yes	Yes	Yes	Yes	Yes
Alarm Indicators	Under and Over (visual on-screen)	Over (visual on-screen)	Under and Over (visual on-screen)	Under and Over (visual on-screen)	Under and Over (visual on-screen)
Datalogging Capabilities	N/A	N/A	N/A	Yes	Yes
Real-Time Clock and Date Stamp	N/A	N/A	N/A	Yes	Yes
Selectable Sampling Rate	N/A	N/A	N/A	Yes (between 1s and 60s)	Yes (1, 2, 5, 10, 30, 60, 120, 300, 600, 1800, 3600s)
Internal Memory	N/A	N/A	N/A	1mb (64,000 datapoints)	N/A
External Memory	N/A	N/A	N/A	N/A	Yes, expandable up to 16Gb with SD card (optional)
Auto Shut-off	Yes (after 5 mins/off)	Yes (after 15 mins/off)	Yes (after 30 mins/off)	Yes (after 30 mins/off)	Yes (after 10 mins/off)
Kick Stand	N/A	N/A	N/A	N/A	Yes
Tripod Mountable	N/A	Yes	Yes	Yes	Yes
Low Battery Indicator	Yes	Yes	Yes	Yes	Yes
Power Supply	3 x AAA batteries	9V battery	9V battery	4 x AAA batteries	6 x AA batteries or AC Adapter (optional)
Output	N/A	N/A	Yes (AC/DC)	Yes (AC/DC)	Yes (AC)
Battery Life	Approx 50 hours	Approx 50 hours	Approx 50 hours	Approx 50 hours	N/A (Sampling Time Dependent)
PC Connectivity	N/A	N/A	N/A	USB	USB Cable (optional)
Software	N/A	N/A	N/A	N/A	SW-U801-WIN Software (optional)
Software OS Compatibility	N/A	N/A	N/A	Windows XP / Vista / 7 / 8 / 10	Windows XP / Vista / 7
Product Certifications	CE	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 Class 2
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)
Storage Temperature	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 Range	10 to 80%	10-90%	10-90%	10-90%	10-90%
Dimensions	5.9 x 2 x 1.1" (150 x 52 x 27mm)	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 29mm)	9.7 x 2.7 x 1.8" (245 x 68 x 45mm)
Weight	4.1oz (116g)	8.1oz (230g)	6.5oz (185g)	8.8oz (245g)	17.3oz (489g)

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