







M O D E L 831C - L O W N

LOW NOISE LEVEL MEASUREMENT SYSTEM

- No external power supply required
- 10 Hz to 16 kHz frequency range
- Highly portable
- Low power (4 mA ICP®)
- Single channel

TYPICAL APPLICATIONS

- Product testing
- Environmental noise
- R&D
- Anechoic chamber testing

6 dB A-WEIGHTED NOISE FLOOR

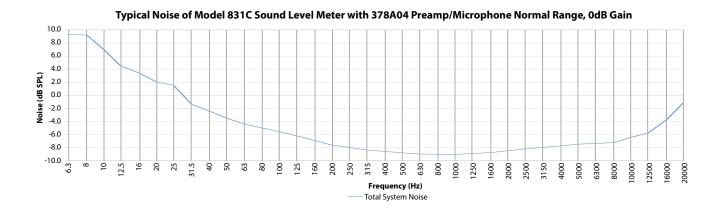
Easily measure very quiet sounds using the SoundAdvisor™ Sound Level Meter Model 831C paired with the Model 378A04 Low Noise Microphone and Preamplifier. Due to the innovative design of the 378A04, which uses a prepolarized microphone and ICP® (constant current) interface, the combination produces a highly portable system that is battery-powered and intuitive to use.

The Model 831C-LOWN configuration is ideal for measurements where noise levels are extremely low, such as very quiet soundscapes and quiet machines.

Because the 831C-LOWN consists of the popular SoundAdvisor™ Model 831C paired with the 378A04 low-noise microphone, it can be used with the wide range of 831C accessories. For example, use with the DVX012 Ethernet dongle to provide network connectivity or the SoundAdvisor Portable Noise Monitoring System Model NMS044 to create a low-noise portable monitoring solution.

831C-LOWN SPECIFICATIONS				
Calibration		Requires 94 dB re 20 µPa calibrator such as CAL1200		
Self-generated No	ise (typical)			
Weighting		0 dB Gain		
A		5.5 dB		
С		10 dB		
Z		18 dB		
Alkaline Battery Life		Decreased approx 15% when using 378A04		
831C-LOWN Included Items				
831C	Model 831C Sound Level Meter			
831C-ACC	Accessory kit for Model 831C			
ADP074	Adapter for ICP® input (BNC)			
378A04	Low noise ICP® microphone and preamplifier			
012A10	BNC cable, 10 ft (3 m)			
BNC M-M	BNC male to male connector			
ADP032	Adapter to mount ½ inch preamplifier to tripod (1/4-20 thread)			
Ordering Information				
831C-LOWN	Low noise system including Model 831C, 378A04 low noise microphone & preamplifier and accessories			
Optional Accesso	ries			
CAL1200	Class 1 acoustic calibrator, 94 or 114 dB at 1 kHz (The 378A04 must be calibrated at 94dB)			
PRM831-FF	PRM831 preamplifier with free field microphone (377B02)			
PRM831-RI	PRM831 preamplifier with random microphone (377B20)			
TRP001	Tripod with ADP032 for mounting ½ inch preamplifier			
Software				
SWW-DNA	Software and USB dongle for evaluation and reporting			
SWW-DNA-831	Instrument driver for SWW-DNA to provide control, live display, and data translation from Model 831			

378A04 SPECIFICATIONS				
Acoustic				
Sensitivity		450 mV/Pa -7 (±2 dB) re 1 V/Pa		
Frequency Range	10 to 16	10 to 16,000 Hz		
Inherent Noise	< 6.5 (5.5 typica	< 6.5 (5.5 typical) dB re 20 μPa		
	Level (dB re 20 μPa)	Frequency		
3% Distortion Limit	100 dB	< 5 kHz		
	80 dB	> 5 kHz		
Environmental				
Operating Temperature	14 °F to 176 °F (-	14 °F to 176 °F (- 10 °C to 80 °C)		
Operating Humidity	0 to 99% relative hum	0 to 99% relative humidity, non-condensing		
Electrical				
Polarization	0 '	0 V		
Output Voltage	± 2 V peak	± 2 V peak maximum		
ICP constant current	4 to 20 mA (4 mA sup	4 to 20 mA (4 mA supplied by Model 831C)		
Physical				
Diameter with Grid	0.52 in (1	0.52 in (13.2 mm)		
Height with Grid	4.02 in (10	4.02 in (102.1 mm)		
Equalization Vent	Re	Rear		
Weight	1.8 oz (51.	1.8 oz (51.3 grams)		
Maximum Sound Pressure	130 dB re 2	130 dB re 20 μPa peak		
Mechanical	Grid cap and microp	Grid cap and microphone not removable		





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