

300 Series Type 2 SLM



Monarch Sound Level Meters are ideal for making noise measurements in the workplace. While Noise is mainly a problem in manufacturing industries, the assessment of personal noise exposure at work must be carried out in all companies to be sure that harmful noise levels are not being exceeded. National regulations exist in almost all industrialized countries which give actual noise limits on the amount of noise allowed in the workplace. With simple operation and powerful features, the 300 Series provides an affordable method to ensure workplace safety. All the 300 Series meet the IEC 651 Type 2 standards. **Monarch 322** is capable of datalogging 32,000 records. Models **321** and **322** will communicate in “real-time” with the **SE322** Windows software.

Monarch 322 SLM Features:

- 32,000 Record Datalogger
- IEC 651 Type 2
- 4 Digit and Bargraph Display
- A and C Weighting
- RS-232 Interface
- Windows Software

Model 322 Sound Level Meter, SE-322 Windows Software, RS-232 Communication Cable and Calibration Screwdriver. (Carrying Case not pictured).



Common Applications:

- OSHA compliance
- R&D
- Environmental noise
- Residential noise
- Data Acquisition



Series 300 Sound Level Meters

Why use a Sound Level Meter?

To identify hazardous sound levels in environments per 29 CFR OSHA 1910.95 and in the design of equipment or environments.

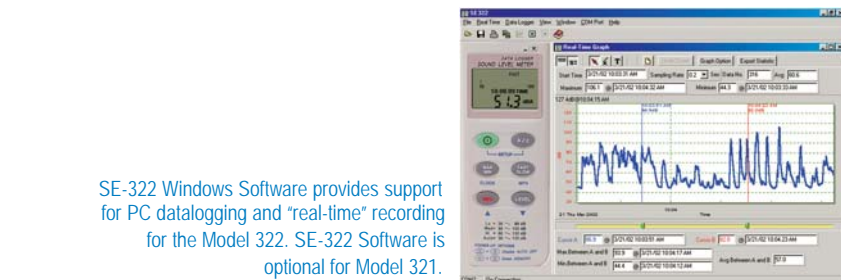
What features are important?

Selectable weighting. Filter algorithms which determine the frequencies the meter will measure. A-weighting most closely models human hearing which is less efficient at high and low frequencies. C-weighting allows a flatter frequency response than A-weighting. A-weighting is used for compliance to OSHA standards.

Response time. How quickly the meter responds to fluctuating sounds. Slow setting (required by OSHA regulations) responds in 1000 milliseconds. Fast setting responds in 125 milliseconds-quick enough to capture “transient peaks” in the noise levels.

Data Logging. Record your findings.

Software. Upload your readings to a PC.



SE-322 Windows Software provides support for PC datalogging and “real-time” recording for the Model 322. SE-322 Software is optional for Model 321.



Specifications	Monarch 325	Monarch 321	Monarch 322
Level Range	Lo = 32 to 80 dB	Lo = 30 to 80 dB	
		Mid = 50 to 100 dB	
		Hi = 80 to 130 dB	
Frequency Range		31.5 Hz to 8 kHz	
Dynamic Range	50 dB	50 dB (100 dB in Autorange Mode)	
Accuracy/Resolution	± 1.5 dB (ref 94 dB @ 1 kHz)/ 0.1 dB		
Display	4 digit LCD	4 digit LCD with Bargraph	
Frequency Weighting		A and C User selectable	
Time Weighting		Fast and Slow User selectable	
Microphone		1/2" Electret Condenser	
Auxiliary Outputs	AC signal	AC/DC signals	
Power		9V Battery	
Memory	None	None	32,000 records
RS-232 Interface	None	SE322 (Optional)	SE322 included

Ordering Information

Monarch 325 Min-Size SLM, Type 2, Meter, Windscreen and Calibration Screwdriver, 9V Battery.

Monarch 321 Autoranging SLM, Type 2, Meter, Windscreen, Carrying Case, Calibration Screwdriver, 9V Battery.

Monarch 322 Datalogging SLM, Type 2, Meter, Windscreen, Carrying Case, Calibration Screwdriver, 9V Battery, SE-322 Software for Windows, RS-232 Communications Cable.

SE-322 Windows Software and RS-232 Communications Cable. Option for Model 321.