

EL-315/EL 316

Features

The EL-316 noise logger is a much improved successor to the highly acclaimed EL-215. In addition to providing all of the key features of its predecessor, the EL-316 offers full compliance to type 1 specifications for all statistical measurements as well as for the L_{eq} measurements. The EL-316 has been tested at the National Measurements Laboratory of the CSIRO to confirm its accuracy.

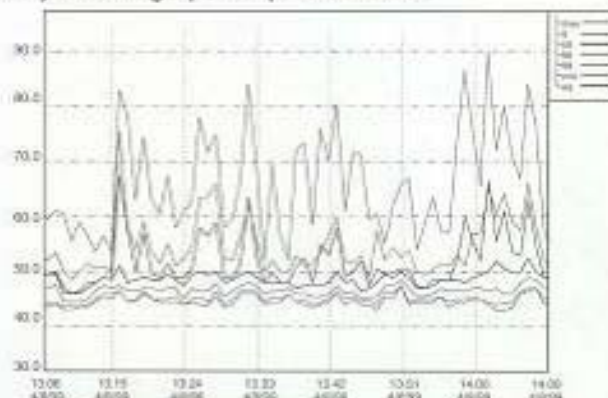
The EL-316 may be fitted with a range of internal batteries permitting the user to trade operational longevity for reduced weight and more usable space for other equipment. Advanced features such as modems (GSM mobile as well as land line), solar panels and talking clocks are optional.

Control and configuration of the logger is accomplished using the EL-316 Host Program, a user friendly graphical interface program for PC's running Windows 95 or later. In addition, a field programmer is incorporated into the logger for situations where a PC is not readily available.

Specifications...

Instrument Type (IEC-651, AS-1259.1)	Type 1 - EL-316 Type 2 - EL-315
Microphone Type	1/2" Condenser
Microphone Noise Floor	Typically 22dBA
Electronic Noise Floor	Typically 18dBA
Frequency Response	A or C weighted
Time Response	Fast
Sampling Rate	8 samples per second
Measurement Range	90dB (30dB-120dB0)
Statistical Intervals	1 minute to 1 hour
Measured Data / Interval	Date, Time, L_{eq} , L_{max} , 8 user selectable percentiles, L_{min} , Temperature and Battery Level.
History Mode	1, 2 or 4 second L_{eq} Samples
Memory Capacity	7500 Intervals
Timer Modes	One-Shot, Hourly Repeat, Daily Repeat and Weekly Repeat. Master and Sub Timer work together to provide more complex timing functionality.
Environmental	-10°C to +50°C
PC Interface	RS-232C 1200 - 19200 Baud, 9 pin 'D' connector
Power Requirements	60mA @ 12V DC
Dimensions (excl. mic)	350mm x 330mm x 150mm
Weight (excl. battery)	4kg

The logged data is saved as a formatted list of noise statistics in a "comma separated variable" (CSV) file. These files may be viewed graphically from the host software or transferred into any commercial spreadsheet programme for extended analysis and graphical presentation.



In addition to the noise statistics, simultaneous short term L_{eq} measurements may be made to obtain a continuous second-by-second historical profile of the noise level. An event log can also be generated to monitor when the preset trigger conditions have been met.

Ordering Information...

Available options and upgrades:

- Solar Panel Support.
- Tape Recorder Support.
- Modem Support.
- Collapsible microphone post.

The EL-316 is designed, manufactured and serviced by:

ACOUSTIC RESEARCH LABORATORIES

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Phonometric

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