

### Product Overview

By combining the powerful CR300 Series Campbell Scientific datalogger, and a handheld BSWA, Larson Sound Level Meter (Class 1 or 2), taking remote sound level readings using the AutoSLM is easy.

The AutoSLM is an ideal solution to monitoring noise related to construction activity. The system has a proven track record and has been used on many past and on-going projects – particularly in dense urban environments.

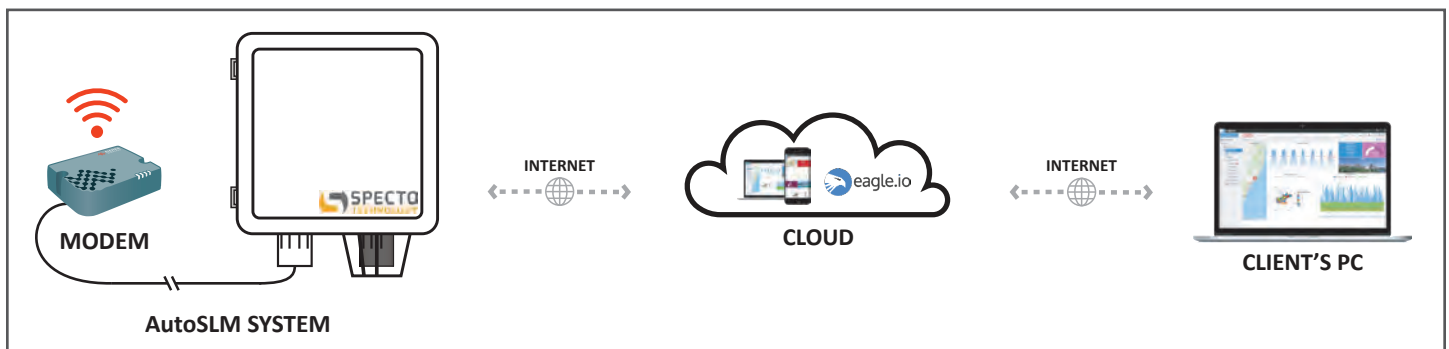


### Features

- ▶ Compatible with:
  - Larson Davis SoundTrack LxT (Class 1)
  - BSWA 308 (Class 1)
  - Center-322 (Class 2)
  - and many others
- ▶ Type 1 and Type 2 systems available
- ▶ Auto ranging between 30 and 130 dB
- ▶ Time weighting selectable between Fast and Slow
- ▶ Frequency weighting selectable between A and C
- ▶ Accuracy: +/-1.5 dB
- ▶ Data files are in Campbell table format
- ▶ All data are stored on the datalogger’s ring memory so no data are lost if communication fails
- ▶ Rugged & weatherproof enclosure
- ▶ Proven history
- ▶ Customizable data output
- ▶ Optional extended cable for free field microphone installation

### Benefits

- ▶ Calibrated by the manufacturer using standards traceable to NIST (individual calibration available upon request)
- ▶ The SLM is non-integrating, all integrating and calculations are done on-board the CR800 datalogger
- ▶ Calculates and outputs multiple parameters including Lmax, Leq and Ln at multiple of intervals (e.g. 15-min, 60-min and or 8-hour) simultaneously
- ▶ The system is fully programmable and output of other parameters can be added upon request
- ▶ Each system includes a cellular modem so that data can be retrieved wirelessly, remotely and automatically
- ▶ Data can be pushed to Eagle.io directly for real-time display, reporting and alarm checking



## Technical Specifications

### SLM

Standard applied:	Center 322 (Type 2) IEC651 and ANSI S1.4
Frequency range:	31.5 Hz – 8 K Hz
Measuring level range:	30 – 130 dB
Frequency weighting:	A or C
Time weighting:	FAST (125 ms), SLOW (1 sec)
Microphone:	½ inch electric condenser microphone
Display:	4-digit LCD or 50 segments bar-graph
DC output:	10 mV/dB, output impedance approx. 100 ohms

### Larson Davis LxT1 (Type 1)

Standard applied:	IEC, ANSI S1.4
Frequency range:	31.5 Hz – 12 K Hz
Measuring level range:	35 – 139 dB
Frequency weighting:	A, C or Z
Time weighting:	Fast, Slow, Impulse
Microphone:	½ inch pre polarized microphone
Display:	160 x 240 pixel LCD
DC output:	10 mV/dB, impedance 3650 ohms

### Datalogger Campbell Scientific CR300 Series

The AutoSLM includes a CR300 Series datalogger that performs integration of sound pressure levels from the SLM to give rise to the following typical parameters:

SPL:	The instantaneous sound pressure level
Lmax:	The maximum instantaneous sound pressure level over the last 15 minutes
Tmax:	The time at which the Lmax occurs over the last 15 minutes.
Leq:	The integrated equivalent sound pressure level over the last 15 minutes
L1, L10 and L50:	1%, 10% and 50% percentile of sound level over the last 15 minutes

### Power

Voltage:	12-volt
Battery Capacity:	7 Amp hours
Charging current limit:	1.2 Amps typical
Power output voltage:	Unregulated 12V from battery
Solar Power:	50W solar panel (optional extra)

### Communications

Input Voltage:	9-28V DC
LED Indicators:	Network, signal, activity, service, power.
Host Interfaces:	Ethernet 100/1000 Mbit RJ-45
Application Interfaces:	TCP/IP, DHCP, HTTP, SMTP, SMS, UDP/IP

### Physical

Size:	15.5"H x 13.5"W x 7.75"D (Allow additional 3" to height for mic. grill)
Use:	Designed for indoor and outdoor use
Rating:	IP66 Rating
Microphone:	Extended cable for free field microphone installation (optional extra)

