



Environmental Protection

For short term community, construction, mining, or other outdoor noise monitoring

Highlights

- Noise Monitor Protection in Any Weather
- Available for Model 831 and SoundExpert® LxT
- Durable, Portable, Pelican® Enclosures
- Water-tight Cable Pass Through
- Rechargeable Battery Option
- Microphone Protection with Built-in Rain Screen

Applications

- Outdoor Noise Monitoring
- Construction Noise
- Mining Noise
- Outdoor Venues
- Aircraft Noise
- Amusement Parks
- Environmental Impact Studies
- Industrial Noise Monitoring



When making outdoor noise measurements, sensitive microphones and noise measuring equipment can be exposed to all types of weather including rain, dew, wind and heat. Protect your equipment and data from the negative effects of exposure to weather by using an Environmental Protection System, EPS. Our EPS products allow a sound level meter to be placed in a protective case and connected to an outdoor microphone system through a watertight orifice using an extension cable.


These systems provide rechargeable battery power to your noise monitoring equipment for up to 4 weeks, while also protecting from damage or measurement error due to dirt or moisture. Whether you need a system that is small and portable or one that will provide extended continuous monitoring in remote locations, we have an EPS product to fit your need.

For protecting your outdoor microphone and preamplifier we offer a new universal protection shroud. The EPS2116 has a built-in rain screen and can be mounted on a camera tripod (1/4-20 thread) or a 3/4" NPT (ISO 228-G 3/4) pipe thread. When combined with the Model 831 or SoundExpert LxT sound level meter, digital correction filters allow for the selection of free field, random or 90 degree response from your sound level meter for a high level of measurement flexibility.

Determining the EPS products that are suitable for your application will depend on the weather conditions, accessibility to the site, duration of your measurements, and more. See the table below to help you select the most appropriate products.





| | | EPS030 | EPS036 | EPS037 | EPS042 |
|-------------------------------|---------------------------|---|---|---|---|
| | |  |  |  |  |
| Power | | | | | |
| Battery Type | | Lead Acid | Lead Acid | Lead Acid | Alkaline |
| Battery Capacity | | 21 Ah | 42 Ah (2 x 21 Ah) | 100 Ah | 8 x D-cell |
| Runtime (typical) | Model 831 | 6 days | 14 days | 28 days | 9 days |
| | SoundExpert LxT | 6 days | 14 days | 28 days | 17 days |
| Power Cable (included) | Model 831 | CBL168 | CBL166, CBL168 | CBL168 | BAT015 |
| | SoundExpert LxT | CBL159, CBL169, PSA031 | CBL159, CBL 166, CBL169, PSA031 | CBL159, CBL169, PSA031 | BAT015 |
| Power Connection | Model 831 | 12 V input | 12 V input | 12 V input | Internal battery terminals |
| | SoundExpert LxT | USB | USB | USB | Internal battery terminals |
| Mechanical | | | | | |
| Dimensions (L x W x D) | | 18.5 x 14.1 x 6.9 inch (47 x 35.7 x 17.6 cm) | 19.7 x 12.0 x 18.0 inch (50 x 30.5 x 45.7 cm) | 19.7 x 12.0 x 18.0 inch (50 x 30.5 x 45.7 cm) | 13.4 x 11.6 x 6.0 inch (33.9 x 29.5 x 15.2 cm) |
| Weight | w/o battery or instrument | 10 lbs. (4.5 kg) | 26 lbs. (11.8 kg) | 26 lbs. (11.8 kg) | 6 lbs. (2.7 kg) |
| | w/ battery and instrument | 30 lbs. (13.6 kg) | 60 lbs. (27.2 kg) | 103 lbs. (46.7 kg) | 12 lbs. (5.4 kg) |
| Case Model | | Pelican® 1500 | Pelican® 1440 | Pelican® 1440 | Pelican® 1400 |
| External Connection | | LEMO® bulkhead mates with CBL142-xxx | One (1) gland with rubber stopper | One (1) gland with rubber stopper | One (1) gland with rubber stopper |
| Miscellaneous | | | | | |
| Other uses | | | Extended NoiseTutor battery operation | Extended NoiseTutor battery operation | SoundTrack LxT |
| Optional Accessories | | CBL142-xxx | | | |
| Ordering Information | | | | | |
| For use with Model 831 | | EPS030-831 | EPS036-831 | EPS037-831 | EPS042 |
| For use with SoundExpert LxT | | EPS030-LXT | EPS036-LXT | EPS037-LXT | EPS042 |
| For use as NoiseTutor Battery | | | EPS036 | EPS037 | |

Related Accessories

| | |
|---------|--|
| TRP001 | Camera type tripod |
| TRP003 | Portable tripod use with ADP034 |
| EPS2116 | Outdoor Microphone and Preamplifier protection |
| WS011 | Replacement windscreen |
| ADP103 | Adapter connecting EPS2116 to TRP003 |




LARSON DAVIS

A PCB PIEZOTRONICS DIV.

3425 Walden Avenue, Depew, NY 14043-2495 USA

Phone 716-926-8243

Toll-Free in USA 888-258-3222

Fax 716-926-8215 E-mail sales@larsondavis.com

Web Site www.larsondavis.com

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For environmental noise monitoring and building acoustics, **Larson Davis** offers a full line of instruments, accessories and software. For personal noise and vibration exposure monitoring, Larson Davis complements this with sound level meters, personal noise dosimeters, human vibration meters, audiometric calibration systems and hearing conservation programs.

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