

## **Environmental Shroud**

Models EPS2106 & EPS2108 for 1/2" Microphones and Preamplifiers

## **Highlights**

- Protects preamplifier circuitry from humidity
- Shields microphone and preamplifier cable connection from rain, sleet, and snow
- Deters perching of birds near microphone
- Easily removable windscreen for quick calibration
- Desiccant cartridge condition easily monitored through transparent tube
- Simple procedure for replacing desiccant cartridges
- Mounting adapters and tripods available
- Integrates with Larson Davis instrument enclosures for portable/permanent noise monitoring applications
- Complies with Type 1specifications of IEC60651, IEC61672 and ANSI S1.4 1985

## **Applications**

- Outdoor noise monitoring under a wide range of environmental conditions
  - Community Noise
  - Aircraft Certification & Noise
  - Traffic Noise
  - Construction Noise
  - Perimeter Noise



Model EPS210X Environmental Shroud is a complete weather protection system for Larson Davis ½ inch microphones and preamplifiers. The environmental shroud is a perfect choice for longer-term measurements in inclement weather. Its special acoustic windscreen material and configuration protect the microphone from rain, sleet, and snow. The shroud seals the preamplifier in a desiccated chamber, thus preserving performance in high humidity environments. The desiccant volume is many times greater than that of inline desiccant cartridges, for lasting protection without interference between the microphone and preamplifier. The shroud is also equipped with "bird-spikes" to deter birds and other animals.

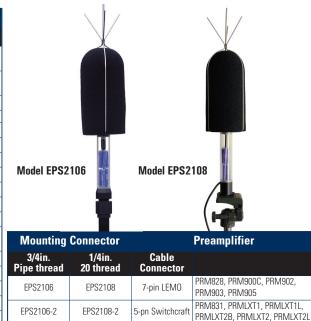
Model EPS210X is an inexpensive option to purchasing a full outdoor microphone preamplifier system with built-in rain hat, and electro-static actuator such as the Model 426A12. The excellent temperature stability of Larson Davis preamplifiers such as the Model PRM902, PRM831, and 426E01, allows operation in a wide temperature range without an internal heater. Additionally, Larson Davis microphones have outstanding resistance to acids and other corrosive agents making them a good choice for use with the environmental shroud.

The Model EPS2106 fits on a 3/4 inch pipe which protects the cable from weather and animals. The Model EPS2108 can be mounted on a standard instrument or camera tripod having a 1/4 - 20 mounting stud.





## **Technical Specifications** Model EPS2106 & Model EPS2108 Maintains Type 1 random response with LD random microphones Response Maintains Type 1 free-field response with LD free-field microphones -40 °C to +60 °C, 0 to 100% R.H. using proper preamplifier and **Environmental Protection** 10 reusable desiccant cartridges Electrostatic Actuator None Height: 32.3 cm (12.7 in), OD: 10.2 cm (4.0 in) Windscreen / birdspikes Body Height 23.0 cm (9.1 in) EPS2106: 50.0 cm (19.8 in) EPS2106-2: 44.0 cm (18.4 in) EPS2106-ICP: 44.0 cm (18.4 in) Total Height EPS2108: 50.8 cm (20.0 in) Dimensions EPS2108-2: 47.5 cm (18.7 in) EPS2108-ICP: 47.5 cm (18.7 in) Height: 12.7 cm (5.0 in), OD: 3.2 cm (1.25 in), Desiccant Chamber ID: 2.54 cm (1.0 in) Mounting (EPS2106) 3/4" pipe thread (female) Mounting (EPS2108) 1/4" 20 thread (female) Windscreen / birdspikes 128 g (4.4 oz) Body 113 g (4.0 oz) Weight Desiccant 20 g (0.8 oz) Total 261 g (9.2 oz)



BNC

PRM426, 426E01, HT426E01

| Ordering Information   |   |
|--|---|
| Environmental Shroud Models  |   |
| Externally Polarized Preamplifier / Microphones (7-pin LEMO connector) e.g. PRM902         |   |
| EPS2106  | Environmental protection for 1/2in preamplifiers with 7-pin Lemo connector, includes windscreen, bird spikes, desiccants and mounts on 3/4" pipe thread.                          |
| EPS2108  | Environmental protection for 1/2in preamplifiers with 7-pin Lemo connector, includes windscreen, bird spikes, desiccants and mounts on 1/4" 20 thread for use with tripods.       |
| Prepolarized Preamplifier / Microphones (5-pin Switchcraft connector) e.g. PRM831, PRMLXT1 |   |
| EPS2106-2  | Environmental protection for 1/2in preamplifiers with 5-pin Swithcraft connector, includes windscreen, bird spikes, desiccants and mounts on 3/4" pipe thread.                    |
| EPS2108-2  | Environmental protection for 1/2in preamplifiers with 5-pin Swithcraft connector, includes windscreen, bird spikes, desiccants and mounts on 1/4" 20 thread for use with tripods. |
| Externally Polarized Preamplifier / Microphones (ICP conditioning with BNC) eg 426E01      |   |
| EPS2106-ICP  | Environmental protection for 1/2in preamplifiers with BNC connector, includes windscreen, bird spikes, desiccants and mounts on 3/4" pipe thread.                                 |
| EPS2108-ICP  | Environmental protection for 1/2in preamplifiers with BNC connector, includes windscreen, bird spikes, desiccants and mounts on 1/4" 20 thread for use with tripods.              |
| Accessories  |   |
| DSC003   | 20 Replacement desiccant cartridges   |
| OR001  | 3 Replacement 0-rings for 1/2 inch preamplifier   |
| WS009  | Windscreen with birdspikes for EPS210x, EPS210x-2 and EPS210x-ICP   |
| WS009-F  | Replacement foam insert for 426A12 and EPS210618  |
| Tripod   |   |
| TRP001   | Instrumentation tripod w/ADP032 preamp to tripod interface  |
| TRP003   | Support tripod, maximum height 8ft, used in portable NMS systems.   |
| ADP034   | Adapter connecting EPS2106 or EPS2106-2 to TRP003 tripod  |
| Cables   |   |
| EXAxxx   | Microphone extension cable, 7 pin LEMO, (xxx ft long)   |
| EXCxxx   | Microphone extension cable, 5 pin Switchcraft, (xxx ft long)  |

EPS2106-ICP

EPS2108-ICP



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