

Environmental Shroud

Model EPS2106

Larson
Davis



Typical Applications

- Outdoor noise monitoring under a wide range of environmental conditions
 - *Community Noise*
 - *Aircraft Certification & Noise*
 - *Traffic Noise*
 - *Construction Noise*
- Operation under exceptionally high humidity and variable temperature environments using the PRM903 preamplifier with internal heater

Features

- Protects microphone interior from humidity
- Shields microphone and preamplifier cable connection from rain, sleet, and snow
- Minimizes wind noise
- 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 adaptors and tripods available
- Integrates with Larson Davis instrument enclosures for portable/permanent noise monitoring applications
- Complies with Type 1 specifications of IEC60651 and ANSI S1.4 1985

The Model EPS2106 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 in-line desiccant cartridges, for lasting protection without interference between the microphone and preamplifier. The shroud is also equipped with "bird-spikes" to deter winged intruders.



The 2106 is an inexpensive option to purchasing a full outdoor microphone preamplifier system with built-in rain hat, heater and electro-static actuator such as the Model 2100K. The excellent temperature stability of Larson Davis preamplifiers such as the Model PRM828, PRM900C, and PRM902, 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 bottom thread may be mounted on a ¾ inch solid wall PVC conduit or similar mating connector. Larson Davis adjustable tripods can also be used with the proper adaptors. Larson Davis also offers the Model EPS2108, a variation of the EPS2106 design that can be mounted on a standard instrument or camera tripod having a 1/4 - 20 mounting stud.

Technical Specifications

Model EPS2106		
Response	Maintains Type 1 random response with LD random microphones Maintains Type 1 free-field response with LD free-field microphones	
Environmental Protection	-40 °C to +60 °C, 0 to 100% R.H. using proper preamplifier and 10 reusable desiccant cartridges	
Electrostatic Actuator	None	
Heater	Use PRM903 preamplifier with its internal heater	
Dimensions	Windscreen / birdspikes	Height: 32.3 cm (12.7 in), OD: 10.2 cm (4.0 in)
	Body Height	23.0 cm (9.1 in)
	Desiccant Chamber	Height: 12.7 cm (5.0 in), OD: 3.2 cm (1.25 in), ID: 2.54 cm (1.0 in)
	Mounting	3/4" standard solid wall PVC conduit thread (female)
Weight	Windscreen / birdspikes	128 g (4.4 oz)
	EPS2106 body	113 g (4.0 oz)
	Desiccant	20 g (0.8 oz)
	Total	261 g (9.2 oz)

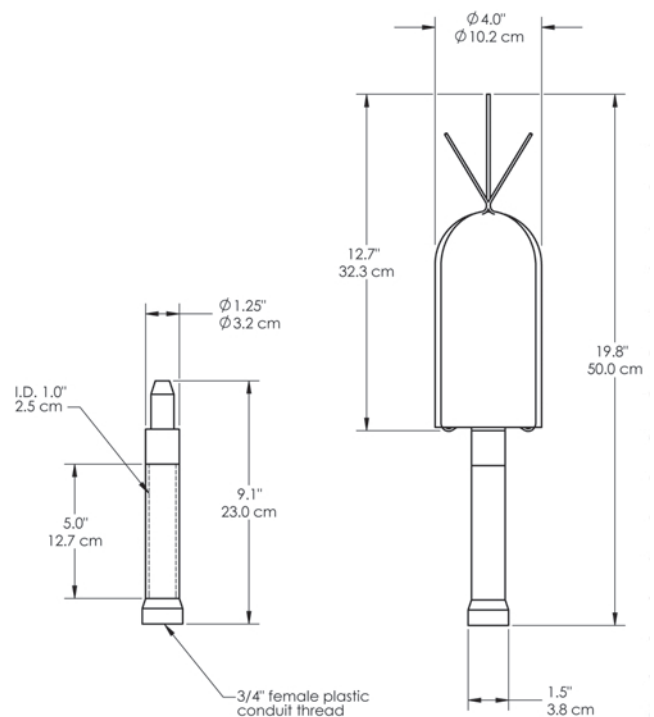
Accessories and Related Products

WS008	Windscreen with birdspikes for EPS2106
WS005-F	Replacement foam insert for WS008
DSC003	20 Replacement desiccant cartridges
OR001	3 Replacement O-rings for 1/2 inch preamplifier
TRP003	Tripod for use with portable noise monitoring systems (maximum height 8 ft)
ADP034	EPS2106 to TRP003 adaptor
ADP052	EPS2106 to TRP007 / TRP011 adaptor

Complete Kits for Portable Noise Monitoring

EPS027	Complete Type 1 environmental system with EPS2106 mounted on a 90° elbow, large CCS007 weatherproof instrument case including: 17 Ah battery, charger, CBL116 PC/modem cable, and space for a Model 812 or 820 SLM
EPS028	Complete Type 1 environmental system with EPS2106 mounted on a 90° elbow, large CCS007 weatherproof instrument case including: 17 Ah battery, charger, CBL006 PC/modem cable, CBL102 power supply cable, and space for a Model 824 SLM

Dimensions



Larson Davis

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