



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 1 specifications 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 1/2 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

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		
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)	
	Total Height	EPS2106:	50.0 cm (19.8 in)
		EPS2106-2:	44.0 cm (18.4 in)
		EPS2106-ICP:	44.0 cm (18.4 in)
		EPS2108:	50.8 cm (20.0 in)
		EPS2108-2:	47.5 cm (18.7 in)
EPS2108-ICP:	47.5 cm (18.7 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 (EPS2106)	3/4" pipe thread (female)		
Mounting (EPS2108)	1/4" 20 thread (female)		
Weight	Windscreen / birdspikes	128 g (4.4 oz)	
	Body	113 g (4.0 oz)	
	Desiccant	20 g (0.8 oz)	
	Total	261 g (9.2 oz)	



Mounting Connector		Preamplifier	
3/4in. Pipe thread	1/4in. 20 thread	Cable Connector	
EPS2106	EPS2108	7-pin LEMO	PRM828, PRM900C, PRM902, PRM903, PRM905
EPS2106-2	EPS2108-2	5-pin Switchcraft	PRM831, PRMLXT1, PRMLXT1L, PRMLXT2B, PRMLXT2, PRMLXT2L
EPS2106-ICP	EPS2108-ICP	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 Switchcraft connector, includes windscreen, bird spikes, desiccants and mounts on 3/4" pipe thread.
EPS2108-2	Environmental protection for 1/2in preamplifiers with 5-pin Switchcraft 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 O-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)



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