



MODELS EPS2106 & EPS2108

WEATHER PROTECTION SYSTEM

ENVIRONMENTAL SHROUD

- 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
- Mounting adapters and tripods available
- Integrates with Larson Davis instrument enclosures
- Complies with Type 1 specifications of IEC60651, IEC61672 and ANSI S1.4 1985

TYPICAL 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 ¾-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 ¼-20 mounting stud.



Model EPS2106



Model EPS2108

MOUNTING CONNECTOR		PREAMPLIFIER	
3/4 in Pipe Thread	1/4 in 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

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 in pipe thread (female)		
Mounting (EPS2108) 1/4 in 20 thread (female)		

SPECIFICATIONS (continued)		
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)

ORDERING INFORMATION	
Environmental Shroud Models	
Externally Polarized Preamplifier / Microphones (7-pin LEMO connector) e.g. PRM902	
EPS2106	Environmental protection for ½ in preamplifiers with 7-pin LEMO connector, includes windscreen, bird spikes, desiccants and mounts on ¼ in pipe thread.
EPS2108	Environmental protection for ½ in preamplifiers with 7-pin LEMO connector, includes windscreen, bird spikes, desiccants and mounts on ¼ in 20 thread for use with tripods.
Prepolarized Preamplifier / Microphones (5-pin Switchcraft connector) e.g. PRM831, PRMLXT1	
EPS2106-2	Environmental protection for ½ in preamplifiers with 5-pin Switchcraft connector, includes windscreen, bird spikes, desiccants and mounts on ¼ in pipe thread.
EPS2108-2	Environmental protection for ½ in preamplifiers with 5-pin Switchcraft connector, includes windscreen, bird spikes, desiccants and mounts on ¼ in 20 thread for use with tripods.
Externally Polarized Preamplifier / Microphones (ICP conditioning with BNC) e.g. 426E01	
EPS2106-ICP	Environmental protection for ½ in preamplifiers with BNC connector, includes windscreen, bird spikes, desiccants and mounts on ¾ in pipe thread.
EPS2108-ICP	Environmental protection for ½ in preamplifiers with BNC connector, includes windscreen, bird spikes, desiccants and mounts on ¼ in 20 thread for use with tripods.
Accessories	
DSC003	20 Replacement desiccant cartridges
OR001	3 Replacement O-rings for ½ 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 8 ft, 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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