

# Model PRMLxT2L

## Preamplifier for SoundTrack LxT® Sound Level Meter

The Larson Davis PRMLxT2L is a microphone preamplifier for use with electret microphones with a Larson Davis SoundTrack LxT® Sound Level Meter. The preamplifier requires very little supply current and operates over wide temperature and humidity ranges. It is for use with 23mV/Pa sensitivity microphones up to a Sound Pressure Level of 127dB peak. The preamplifier will drive 100 feet of cable to 20kHz.

### SPECIFICATIONS

FUNCTION	SPECIFICATION	REMARKS
Frequency Response	4Hz-20kHz	+( 0.1dB to - 0.5)dB
Attenuation	1.2dB	Typical
Preamplifier Sensitivity	33.9dB re1V/Pa	±3dB re1V/Pa
Input Impedance	10GΩ//3pF	Typical
Output Impedance	50Ω	Typical
Maximum Output Voltage	2.0Vpp	127 dB peak for microphones with 20mV/Pa sensitivity
Maximum Output Current	10mA peak	
Distortion	Harmonics < -62dBC	1.1V rms output @ 1kHz
Output Slew Rate	2V/μS	Typical
Electronic Noise	- 1.8μV A-weighted - 3.2μV Flat (20Hz-20kHz)	Typical for 18pF microphone
Power Supply Voltage	6 to 15 Volts	
DC Output Level	0.5 X Power Supply Voltage	
Power Supply Current	1.3mA	Typical
Temperature Sensitivity	< ± 0.05 dB (14deg to 122 deg F)	-10 deg to +50 deg C
Humidity Sensitivity	< ± 0.05 dB (0-90% RH)	Non-condensing @104°F
Dimensions	0.5" dia x 4.92"L	12.7mm dia x 125mm L
Compatibility	Larson Davis ACO 7052 or any ½" electret microphones having about 23mV/Pa sensitivity	ADP043 or ADP008 adaptors for 1/4" or 1" microphones



#### Total Customer Satisfaction Guaranteed

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