

Model PRMLxT1

Preamplifier for SoundTrack LxT® Sound Level Meter

The Larson Davis PRMLxT1 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 has a built in attenuation of 23 dB for use with 50mV/Pa sensitivity microphones up to a Sound Pressure Level of 143 dB peak. The preamplifier will drive 200 feet of cable to 20kHz.

SPECIFICATIONS

FUNCTION	SPECIFICATION	REMARKS
Frequency Response	4Hz-40kHz	(+ 0.1/- 0.2)dB
Attenuation	22.8dB	Typical
Preamplifier Sensitivity	-48.8dB re1V/Pa	±3dB re1V/Pa
Input Impedance	10GΩ//5.3pF	Typical
Output Impedance	50Ω	Typical
Maximum Output Voltage	2.8Vpp	143 dB peak for microphones with 50mV/Pa sensitivity
Maximum Output Current	10mA peak	
Distortion	Harmonics < -60dBC	0.7V rms output @ 1kHz
Output Slew Rate	2V/μS	Typical
Electronic Noise	- 1.1μV A-weighted - 1.6μV 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 2.88"L	12.7mm dia x 73mm L
Compatibility	Larson Davis 377B02 or any 1/2" electret microphones having about 50mV/Pa sensitivity	ADP043 or ADP008 adaptors for 1/4" or 1" microphones



Total Customer Satisfaction Guaranteed

Larson Davis, Inc.

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Larson Davis provides a complete line of acoustic and vibration measurement tools including dosimeters, sound level meters, real time analyzers, pre-amplifiers, calibrators, and microphones.