



LxT Sound Level Meter and NMS Kit

SECTION 1:

This shipment contains _____ LxT kits.
Each kit includes one of each item in this section unless noted.

- _____ **079A06** 1/2" Mic Windscreen, 3.5" diameter or
- _____ **079A07** 1/4" Mic Windscreen, 3.5" diameter



Microphone (see table on right)

- _____ **PRMLxT1** PRMLxT1 Preamps ship in a protective case. Also available is the **PRMLxT1L** low-range preamplifier for 1/2" microphones (shifts dynamic range down to 17-120 dB A-weighted).

- _____ **EXC010** **EXC series cable**, 5 pin Switchcraft extension cable, used as optional extender between meter and preamp. 10, 20 and 50 ft lengths available.
- _____ **EXC020**
- _____ **EXC050**



NOTE: Preamplifier release button

- _____ **CBL138** USB Cable USB A to Mini USB, connects meter to computer or power.



- _____ **PSA029** AC Power Adaptor.



- _____ **Batteries** (4) AA rechargeable batteries. Batteries may be installed in meter.



Job # _____ Customer _____

First Rental Period † _____

† Rental period starts the calendar date after shipment, and ends on date returned. Rentals can be kept beyond the initial period, and are extended at the same period and rate. Rentals returned in an extension period are billed at a net prorated basis based on return date. Let us know if your company requires a new PO or payment method for extension charges.

Microphone(s)

377B02 ships by default. Select based on expected noise ranges. Model LxT apply a digital correction factor to measure Random Incidence with a Freefield Microphone (and the reverse). Units ship with case, o-ring to mate between preamplifier and mic in outdoor use, desiccant, and microphone guideline sheet.



Quantity	Microphone Model	Size	Type	Noise Floor (dBA)	Low Range Indicator (dBA)	Overload (dBpk)
	377B02	1/2"	Freefield	17.1	26.2	143.5
	377B20	1/2"	Random	15.3	24.4	143.5
	377C01*	1/4"	Freefield	35.7	44.8	172.3
	377C10*	1/4"	Pressure	36.3	45.5	178.8
	377A12*	1/4"	Pressure	37.5	48.6	182.8

*Includes ADP043 1/4 inch microphone to 1/2 inch preamp adaptor

LxT (Firmware revision 2.302 or higher)

Meter Options and Special Notes:

	Description
	LxT-LOG Time History Logging (multi parameter, increments from 1s to 24hr)
	LxT-OB3 Selectable real time 1/1 and/or 1/3 octave filter set
	LxT-ENV Measurement History Logging: exceedance/events, intervals, and daily
	LxT-DVA Digital Voice Annotation for LxT
	LxT-HSLOG Option for LxT adding high speed time history storage (logging up to 100msec, LXT-LOG required)
	LxT-CN Option for LxT adding Community Noise (Ldn, Lden)
	Preload Meter Setup: preload user specified measurement set up onto meter(s) prior to shipment from The Modal Shop
	Data Download from meter(s) upon return to The Modal Shop and electronically send data to the following recipient(s):
	Other:

SECTION 2:

One accessory kit included for each family of meter rented unless otherwise specified.

_____ **CAL200** Calibrator with adapters (if necessary), manual or instruction sheet. Chapter 17 of the LxT Manual is short (<10 pages!) and covers calibration, including meter screenshots.



_____ **ADP109** 1/4 in adaptor _____

Information including:

- | | | |
|-------|--------------------------|---|
| Paper | <input type="checkbox"/> | • This sheet as a reference |
| USB | <input type="checkbox"/> | • LxT Operation Manual |
| Email | <input type="checkbox"/> | • G4 Utility software *Note* |
| Omit | <input type="checkbox"/> | • SLM Utility – G4 Operation Manual |
| | <input type="checkbox"/> | • Calibration certs for each meter and microphone, and calibrator |
| | <input type="checkbox"/> | • Rental Tracking Sheet, includes serial numbers of units shipped |

Please note that USB's are used as a default, but G4 Utility software and LxT Manual are also available for download from www.larsondavis.com in the "Support" section. **Feel free to call us if you have any questions! +1 513-351-9919**

Videos are available showing calibration and other helpful hints at - <http://www.modalshop.com/rental/learn/acoustics/sound-level-meter-831>

Note:

G4 LD Utility software is compatible with all 32 bit and 64 bit versions of Windows 7 and 8.1, and 10. The administrator of the PC must install G4 for successful installation. Rental laptops are available with G4 software preloaded. Meter setup and data download services are also available.



LxT Sound Level Meter and NMS Kit

SECTION 3: Meter Case Options



—— **CCS001-LxT** Hard shell case for Model LxT Sound Level Meter
Standard method. Each unit ships in individual case. Useful if meters are being divided up at test location.

*Typical Box size and weight:
 22"x16"x10", 15 lb*

—— **CCS001-831-4** Rugged case holds up to (4) 831 or LxT units with preamplifiers and microphones, and (1) CAL200 calibrator.
Lower shipping costs by eliminating standard cases that ship with each meter.

*Typical Box size and weight:
 20"x16"x14", 25 lb*



SECTION 4: Outdoor components for LxT-based NMS kits.

Microphone Environmental Protection Kit



—— **EPS2116** Environmental protection for 1/2 in preamplifiers (PRMLXT or PRM831), with windscreen & bird spike. Mounting options for 1/4-20 thread (TRP001), 1.5 in. pipe (TRP003) and 3/4 in. NPT pipe included

Please see the following video for EPS2116 set up details: www.modalshop.com/ID=1148

—— **No Environmental Protection Kit** Use your own EPS system or an alternate mounting as noted below.

—— **EPS2106-2** Environmental protection for 1/2" ICP® preamplifiers (PRMLXT or PRM831), includes windscreen, bird spikes, desiccants and threaded for 3/4" standard solid-wall PVC conduit thread (FEM)

—— **EPS2108-2** Environmental protection for 1/2 in preamplifiers (PRMLXT or PRM831), with windscreen, bird spikes, desiccants, 1/4-20 thread (FEM) for use with tripods.

Tripod Options



—— **ADP034** Larson Davis adaptor used to connect the EPS2116 to the TRP003 tripod

—— **TRP003** Ultimate support tripod, max height 8ft, used in portable NMS systems
Tripod for unattended monitoring. Ship weight 14 lb for 1, 25 lb for 2, box 64"x 8"x 8"

—— **TRP001** Larson Davis Instrumentation tripod with ADP032 preamp to tripod interface
Lightweight tripod, height adjusts from 21" to 56". Not recommended for long term monitoring or in heavy wind. Includes 1/4 – 20 mount

—— **No Tripod** Use your own tripod option. Use any tripod with a 1/4-20 male mounting thread (typical camera thread). Can be used with the 079A11 or EPS2116.



Battery Power Options



EPS042 kit for multi-day use. Includes:

- Battery quick guide
- **BAT015** 8 D-cell battery pack
- BAT015 installation guide
- BAT015 battery door
- D-cell batteries
- Power connection to meter

Powers LxT for 15 days, typically, with appropriate power save settings selected in meter set up. Can also load only 4 batteries into battery pack for half the run time.



—— **CBL142-010** Preamplifier cable connection 5-pin LEMO (bulkhead) to 5 pin Switchcraft female (to preamplifier), 10 ft
Additional lengths available



—— **EPS030-LxT** kit for multi-day use. Includes manual, rugged case for LxT including 1x21Ah battery (BAT011), charger (PSA032), CBL141, 12V to USB converter (PSA031) and power cable (CBL169)
Powers LxT for 6 days, typically, with appropriate power save settings selected in meter set up



LxT Sound Level Meter and NMS Kit

Additional Power Options *See online for additional information*

- _____ **BAT011** DC 12V 21Ah External Sealed Lead Acid Battery non-spillable 6"x 9"x 4" 10lb unit, charger included upon request
- _____ **CBL169** External Power Cabling for One External 12 V Battery (female cigar lighter)
- _____ **PSA031** 12VDC to USB Converter used with CBL169
- _____ **BAT015** 8 D cell battery holder with fuse with power connection to meter

Additional Tripod Options

- _____ **079A10** Holds 1/4" microphone/preamplifier pair via friction fit, and mates to standard camera tripod via 1/4"-20 thread
- _____ **079A11** Holds 1/2" microphone/preamplifier pair via friction fit, and mates to standard camera tripod via 1/4"-20 thread
- _____ **079A15** Tripod for temporary/attended testing. When used with 079 series, holds mic/preamp pair with windscreen. Not designed to support weight of sound meter

079A11



079A15



Additional Accessories

- _____ **SWW-DNA** Data Navigation and Analysis Software navigate through extensive data with measurement organization, reporting, and data post-processing tools
- _____ **ACC003** Headset with microphone boom, 2.5mm micro-jack for voice annotation
- _____ **ADP074** ICP® interface cable allows connection of a single axis ICP® accelerometer, provides BNC connection
- _____ **ADP097** Direct input adaptor BNC for Model 831
- _____ **CAL200** Class 1 acoustic calibrator with user selectable output of 94 or 114 dB at 1 kHz. 1/2" opening
- _____ **CAL250** Class 1 acoustic calibrator with 1 inch opening, output of 114 dB at 251.2 Hz
- _____ **ADP019** 1/2" microphone adaptor for CAL250 1" calibrators
- _____ **ADP114** 1/4" microphone adaptor for CAL250 1" calibrators
- _____ **ACO WS7** 7" Windscreen for 1/2" microphones
- _____ **ACO-WS7-80T** 7" Windscreen for 1/2" Microphones (80ppi) Dense-Treated Windscreen