

SECTION 1:		
This shipment of	contains 831 kits.	
Each kit include	es 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)	П
PRM831	Preamps ship in a protective case.	
EXC010	EXC series cable, 5 pin Switchcraft	
EXC020	extension cable, used as optional	1
EXC050	extender between meter and preamp. 10, 20 and 50 ft lengths available.	
NOTE:	Preamplifier release button	
CBL138	USB Cable USB A to Mini USB, connects meter to computer or power.	0
PSA029	AC Power Adaptor.	
Batteries	(4) AA rechargeable batteries. Batteries may be installed in meter.	Energizer) § Energizer) § Energizer) § Energizer) §

Job #	Customer	
	First Pental 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 unless otherwise requested. Model 831 can 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
	377C20	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	192.8

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

831 (Firmware revision 2.314 or higher)

Meter Options and Special Notes:

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831-LOG Time History Logging (multi parameter, increments from 20ms to 24hr)
831-ELA Measurement History Logging: exceedance/events, intervals, and daily
831-OB3 Selectable real time 1/1 and/or 1/3 octave filter set
831-IH Industrial Hygiene: selectable standard doses (OSHA, ACGIH, NIOSH, IEC)
831-SR Sound Recording: level and dynamic based event recording and more
831-FST Fast time history logging 2.5, 5 and 10ms speeds (requires LOG and OB3)
831-FFT 400 to 6400 line FFT with selectable span 100Hz-20kHz with windowing
831-RT Reverberation Time room acoustics (ISO 3382-2:2008 and ASTM E2235-04)
831-LOWN Low noise configuration (include LOWN FAQ)
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 831 Manual is short (<10 pages!) and covers calibration, including meter screenshots.



ADP109 1/4 in adaptor _____

Information including:

Paper USB Email Omit	This sheet as a reference
□ □ □ •	831 Operation Manual
	G4 Utility software *Note*
	SLM Utility – G4 Operation Manual
□ □ □ □ •	Calibration certs for each meter and microphone, and calibrator
□ •	Rental Tracking Sheet, includes serial numbers of units shipped

Please note that USB's are used as a default, but G4 Utility software and 831 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

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.



SECTION 3: Meter Case Options



CCS001-831 Hard shell case for Model 831 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 831-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/rental/learn/ acoustics/eps2116-setup

 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.



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 831 for 9 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.



EPS044-SLA kit for multi-day use. Includes:

_ CCS051 case with foam inserts, brackets, power distribution block, and accessories

BAT0020 35 Ah 12 Volt SLA battery *

_ PSA038 Solar Charge Controller *

__ CBL224-02 Charge controller to power block cable *

_ CBL225-01 Fused battery cable *

_ CBL226-02 Solar connectors to solar charger cable *

_ CBL228-03 831C to power block cable *

_ACC009 monopole (or alternate as noted in section 4)

_EPS2116-044-CASE containing power connector removal tool, guy wires, ground stakes, and Phillips #2 and #0 screwdriver

Typical run time of 11-12 days with power save options activated and no USB peripheral usage.

*Denotes pre-installed items





Power Options Continued



__**SLP002** Portable 100 Watt solar panel with stand and connectors for use with EPS044

Continually charges battery of EPS044 for extended run time

SECTION 5: Weather Sensor Kit

This shipment contains weather system kits (includes one of each item in this section unless noted)



TRP003-WTHR

SEN031 Combined weather sensor: wind speed and direction, temperature, humidity, pressure, rainfall (includes coupler)

SEN032 Combined wind speed and direction sensor

DVX008A USB Adaptor for DBM9 interface

CBL229 Cable for SEN031 and SEN032. Serial port for control and data, Anderson Powerpole connectors to power from EPS044. Connects to Model 831 with DVX008A.

____ Cable Length

TRP003-WTHR Tripod adaptor for SEN031. Includes 24" horizontal bar, heavy duty clamp and 3/4" X 4" PVC

CBL225-01 Adaptor power cable for battery with spade connectors and Anderson Powerpole connectors. 1 ft. length

SECTION 6: Building Acoustics Accessories



BAS001 Omnidirectional Sound Source

BAS001 Omnidirectional source for Reverberation Time, Room and Building Acoustic Measurements – integrates with 831-RT option to offer easy ISO 3382-2 and ASTM E2235-04 testing

BAS002-U Power Amplifier for BAS001 and BAS002. Includes signal source files

BAS003 Directional source for the evaluation of the transmission loss index of a façade

__ TRP023 Tripod for BAS001 and BAS003

BASO04 Tapping machine with battery pack and remote control. For ISO 10140, ISO 140, DIN 52210, B5 5821, ASTME 492 measurements

BAS006 Impulse generating source for building acoustics designed for wide frequency range

CBL180 AC/DC out to BAS002 input



BAS006 Impulsive Source



BAS003 Directional Sound Source



BAS004 Tapping Machine











KR-05 Components

R-05

3.5 to 2.5mm **Connectivity Cable**





32 GB SD Card

D Cell Power Supply





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 CBL143 External Power Cabling for Two External 12 V Batteries CBL168 External Power Cabling for One External 12 V Battery

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"-

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 079A11 clip, holds mic/preamp pair with windscreen. Not designed to support weight of sound meter

Continuous Audio Recording accessories

KR-05 Continuous Sound Recording Kit - includes Roland R-05 wave mp3 recorder with AC and DC power supplies, cable and adaptor to connect to the Larson Davis 831.

D Cell Power Supply

3.5 to 2.5mm Connectivity Cable

32 GB SD Card

R-05 Roland Wave mp3 recorder

Underwater Acoustics

TC4013 Reson high sensitivity low frequency miniature hydrophone. 1Hz-170kHz, 700m operating depth, cable terminating in LEMO with BNC adaptor. 6m standard cable length, various cable lengths available

42AA Pistonphone Calibrator, 114 dB @ 250 Hz

RA0043 Pistonphone coupler for TC4013 hydrophone

ADP005 BNC to 1/2 in microphone thread adapter, 18 pF with shorting

TL8013 Protective cage for TC4013 hydrophone

Additional Accessories

831-GPS GPS unit for 831 provides global positioning information to 831 data, connects via auxiliary USB connection

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

SWW-DNA Data Navigation and Analysis Software navigate through extensive data with measurement organization, reporting, and data post-processing tools

EPS036-831 Environmental enclosure kit with (2) BAT011, battery charger, cabling and case mounted tripod. Typically provides 14 days of operation per charge

EPS037 Large environmental enclosure kit with BAT012, 100 Ah battery, battery charger and cabling. Typically provides 28 days of operation per charge

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

