



NMS044-SLA100 Selection Guide

SECTION 1:

This shipment contains _____ Sound Advisor Model 831C kits.
Each kit includes items in this section as noted.

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.

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



Microphone (see table on right)

- _____ PRM831 Standard Preamp for 831C.
- _____ PRM2103 Heated preamp with remote calibration check and humidity reading. *Requires EPS044 case and CBL222 cable.*



- _____ EXC010 **EXC series cable**, 5 pin Switchcraft extension cable for **use with PRM831**, used as optional extender between meter and preamp. 10, 20 and 50 ft length options.
- _____ EXC020
- _____ EXC050



- _____ CBL222-08 Extension cable for **use with PRM2103** and EPS044. Provides data, control, and power via Anderson Powerpole connectors. 8 and 20 ft lengths available.
- _____ CBL222-20



NOTE: Preamp 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.



Microphone(s)

377B02 ships unless otherwise requested. Model 831C 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
	378A04	1/2"	Freefield	6.5	--	80/100**

*Includes ADP043 1/4 inch microphone to 1/2 inch preamp adaptor
**100dB 10Hz – 5000Hz, 80dB for other frequencies, ADP074 and accessories required

831C (Firmware revision 3.3.0 or higher)

Meter Options and Special Notes:

<input type="checkbox"/>	831C-LOG Time History Logging (multi parameter, increments from 20ms to 24hr)
<input type="checkbox"/>	831C-ELA Measurement History Logging: exceedance/events, intervals, and daily
<input type="checkbox"/>	831C-OB3 Selectable real time 1/1 and/or 1/3 octave filter set
<input type="checkbox"/>	831C-SR Sound Recording: level and dynamic based event recording and more
<input type="checkbox"/>	831C-SW Direct USB support of Sierra Wireless RV-50 gateway
<input type="checkbox"/>	Preload Meter Setup: preload user specified measurement set up onto meter(s) prior to shipment from The Modal Shop
<input type="checkbox"/>	Data Download from meter(s) upon return to The Modal Shop and electronically send data to the following recipient(s):
<input type="checkbox"/>	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. Section 5.4 of the 831C Manual is short (1 page!) 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"/> | • 831C Operation Manual |
| Email | <input type="checkbox"/> | • G4 LD Utility software *Note* |
| Omit | <input type="checkbox"/> | • G4 LD Utility Software 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 for the above information, but G4 LD Utility software is also available for download from <http://larsondavis.com/product-support> in the "Software" section. The 831C manual can be found in the "Sound Level Meters" section. **Feel free to call us if you have any questions at +1 513-351-9919**

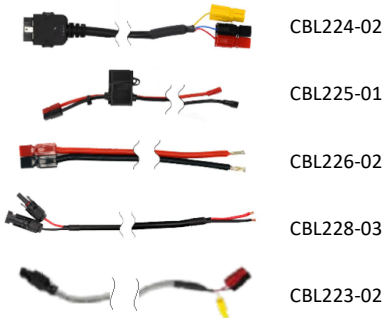
Videos are available showing calibration and other helpful hints at - <http://larsondavis.com/product-support/technical-tutorials>

***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.



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SECTION 3: NMS044-SLA100 components



- _____ **831C** SoundAdvisor meter as specified in section 1 *
 - _____ **PRM2103-FF** or **PRM831** as specified in section 1
 - _____ **CBL222 *** or **EXC series cable** as specified in section 1
 - _____ **EPS044** complete case with:
 - 35 Ah 12 volt battery BAT020 *
 - Charge Controller PSA038 *
 - Power cabling: CBL224-02, CBL225-01, CBL226-02, and CBL228-03 *
 - _____ **COM-RV50-DC** Cellular Gateway with dual antennas *
 - _____ **SLP002** 100 Watt solar panel
 - _____ **PSA039** 120 V AC battery charger adaptor
 - _____ **CBL223-02** RV50 to power block cable *
 - _____ **DVX015** 2 port self-powered USB hub adaptor *
 - _____ **ACC009** Monopole (alternative tripod options in section 4)
 - _____ **EPS2116-044-CASE** containing power connector removal tool, guy wires, ground stakes, and Phillips #2 and #0 screwdriver
 - _____ **CBL138** US-A to min-B cable and **CBL218** USB-A to micro-B cable
 - _____ **831C-SIM** Data plan and SIM card preinstalled in modem*
- *Denotes pre-installed items

SECTION 4: Outdoor components for 831C based kits

Microphone Environmental Protection Kit



- _____ **EPS2116** Environmental protection for 1/2" preamplifiers (PRMLXT, PRM831, or PRM2103), with windscreen & bird spike. Mounting options for 1/4-20 thread (TRP001), 1.5" pipe (TRP003) and 3/4" NPT pipe included

Please see the following video for EPS2116 set up details: <https://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.

Optional Tripods



- _____ **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.

*Typical box size and 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).

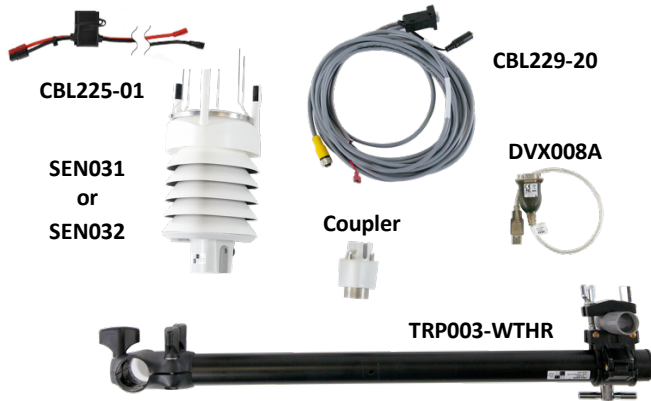




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SECTION 5: Weather Sensor Kit

This shipment contains _____ weather system kit(s) (includes items as marked below).



- _____ **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: Additional Accessories

USB Options

- _____ **DVX014** WiFi Wireless Adaptor *typically provided as standard*
- _____ **831-MEM32G** 32 GB USB low profile memory drive
- _____ **Weather SEN031 and SEN032** weather sensors, *more information in section 5*
- _____ **GPS001** GPS unit for 831C provides global positioning information to 831C data
- _____ **DVX012** USB to wired Ethernet adaptor. Connects 831C to Ethernet port. Ethernet cable not included. *Use when using more than 2 USB peripherals.*
- _____ **DVX013** 3 Port USB hub plus Ethernet to USB hub. Requires external 5 V power (**PSA036 included**).
- _____ **DVX015** Self-powered 2 port USB hub

Alternate Inputs (non-USB)

- _____ **ADP074 ICP®** interface cable allows connection of a single axis ICP® accelerometer, provides BNC connection
- _____ **ADP097** Direct input adaptor BNC for Model 831

Additional Accessories

- _____ **CAL200** Class 1 acoustic calibrator with user selectable output of 94 or 114 dB at 1 kHz, 1/2" opening, *typically provided as standard*
- _____ **SWW-DNA** Data Navigation and Analysis Software navigate through extensive data with measurement organization, reporting, and data post-processing tools
- _____ **012A10** BNC cable. 10 ft
- _____ **BNC m-m** BNC male to male adapter
- _____ **ACO WS7** 7" Windscreen for 1/2" microphones
- _____ **ACO-WS7-80T** 7" Windscreen for 1/2" Microphones (80ppi) Dense-Treated Windscreen

Underwater Acoustics

- _____ **TC4013** Reson high sensitivity low frequency miniature hydrophone. 1Hz-170kHz, 700m operating depth, cab 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 cap
- _____ **TL8013** Protective cage for TC4013 hydrophone