

Manufacturers Servicing and Warranty Arrangements

In order to ensure its rigid conformity with the requirements of the specification, this instrument is thoroughly inspected and calibrated prior to dispatch from the factory. All technical information for an individual instrument is files under the instrument serial number. Therefore, the instrument serial number should be quoted in any correspondence concerning the instrument.

The manufacturers undertake to rectify any defect in the instrument that is directly attributable to faulty design or assembly, and which becomes apparent during the warranty period. In order to take advantage of this warranty, the instrument must be returned, carriage paid, to the manufacturer's factory or accredited agent, where necessary repairs will be carried out.

Normally, the warranty period runs for 24 months from the date of receipt of goods, with exceptions on certain specialised components supplied by other manufacturers which are warranted for shorter periods. Some of the specialised components used in this instrument may be subject to longer guarantees by their actual manufacturers and in all such cases the benefits of these undertakings will be passed on to the user. However, Casella CEL's liability is limited to items of their own manufacture, and they do not accept liability for any loss resulting from the operation or interpretation of the results from this equipment.

A comprehensive Instrument Calibration Maintenance Agreement (ICMA) scheme is available to extend the initial warranty period of this instrument. At the end of the first warranty period, it is recommended that the equipment be returned to the Service and Re-calibration Department at Bedford, where it will be inspected and entered into the ICMA scheme as required. The warranty will then be extended for the period stated on the individual schedule. Please contact your local Casella CEL agent for full details of this service.

In the event of a malfunction developing during the warranty period, the instrument should be carefully packed and returned either to Casella CEL's local agent, or in the case of domestic sales, to the Service Department at Bedford.

Please include the following information:

- Instrument type(s) and serial number(s)
- Customer name and address
- Contact name and phone number
- Reason for returning the equipment, with a detailed description of the fault

The necessary adjustments or repairs will be carried out, and the instrument returned as soon as possible. After the warranty has expired (except on approved accounts) service work is undertaken against quotations, and all packing and transit costs are charged extra.

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Field Guide CEL-63x Series Sound Level Meters Environmental Noise Kit CEL-6847



Introduction

The CEL-63x Environmental Noise Kit provides a degree of weather protection for acoustic measuring instruments when left in the open.

The CEL-63x Environmental Noise Kit (shown above) is intended for use with sound level meters in the CEL-63x range. The kit accommodates the CEL-63x sound level meter, preamplifier, sealed 12 V battery unit, and power controller plus all the relevant connecting cables.

When required, the complete kit can be powered from an external 12 V DC supply that will also maintain the charge in the battery.

For additional security, when a kit must be left unattended the case can be locked with two padlocks (not supplied). In addition to this, the moulded handle allows the case to be chained to convenient street furniture.

CEL-6847 Schedule of Parts

A complete CEL-6847 Environmental Noise Kit consists of the following items:

- **CEL-6847 case**, including pre-cut foam insert, pressure purge valve and plastic battery terminal shield.
- **Captive preamplifier cable** with weatherproof connection through the case, including a captive screw cap.
- **Power controller unit** with captive cables to battery and to sound level meter.
- **Captive cable** for external 12 V DC power to battery controller, with weatherproof connection through the case, including a captive snap-on cap.
- **Field guide instructions** FG41.

The following optional items can also be supplied:

- **C6717/5/10/20/30** microphone extension cable – 5 m, 10 m, 20 m or 30 m.
- **038096** heavy-duty tripod.
- **CEL-6737** outdoor microphone enclosure.
- **B155** sealed rechargeable battery 12 V 20 Ah.
- **CEL-16029** (240 V) battery charger 12 V.
- **CF42** (110 V) battery charger 12 V.
- **196133B** cable between 12 V weatherproof connector and battery charger.

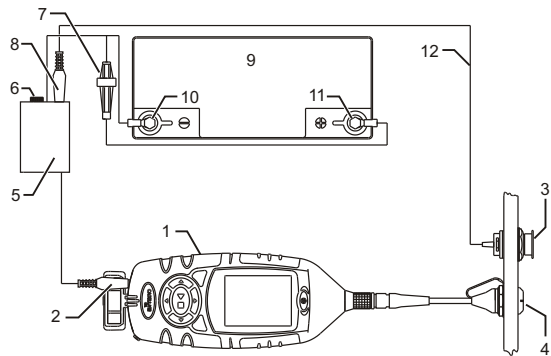


Figure 1. CEL-6847 Environmental Noise Kit

WARNING

Disconnect the internal battery at the tags **FIRST** if you intend to power the system from an external 12 V battery connected to the external charging/power connector.

Instrument Installation

The CEL-495 preamplifier and associated microphones must be connected to the kit case by a C6717/x extension cable, which is available with lengths of 5 m (16 ft), 10 m (32.5 ft), 20 m (65 ft) or 30 m (98 ft). Protection for the microphone is provided by installing the preamplifier and microphone in a CEL-6737 outdoor microphone enclosure.

Connect the preamplifier end of the sound level meter to the captive preamplifier cable, and then install the instrument into the shaped cutout. The sound level meter must be used only with a remote microphone attached via the weatherproof connector (item 4 in Figure 1).

Use the cables supplied to make all the connections shown in Figure 1, but make sure the battery is the LAST item connected. Fit each item into its shaped foam cutout inside the case.

DO NOT confuse the coaxial plugs carrying external/charger power to the power controller and battery power to the sound level meter. They have different internal dimensions to protect the power controller.

Cover the battery terminals with the plastic shield supplied.

CEL-6847 Environmental Noise Kit (see Figure 1)

1. CEL-63x Sound level meter
2. Plug 2.1 mm
3. Connector 12 VDC
Weatherproof IP68 2-line connector for battery charging and power, with snap-on captive cap
4. Connector C6717/x
Weatherproof connector for microphone extension cable
5. Power controller
6. Fuse (20 mm anti-surge 1 A)
7. In-line fuse (20 mm 6.3 A)
8. Plug 2.5 mm
9. Battery
10. Black tag
11. Red tag
12. Power/charging cable (hidden)

Connect the cable for the microphone to the weatherproof connector (item 4 in Figure 1). Mount the remote preamplifier, microphone and weather protection system on a tripod or other suitable fixture. Follow the instructions supplied with the CEL-6737 outdoor microphone enclosure to install this item.

Operation

Note that there should be no problems caused by overheating when this equipment is enclosed within the case under normal temperate weather conditions.

If you experience difficulty when trying to open the case, for example after an aircraft flight, it is possible the case may be de-pressurised. If this occurs, loosen the pressure purge gland near the carrying handle to equalise the internal pressure.

Operate the sound level meter according to the instructions supplied with the meter.

The external power connector is intended primarily for battery charging by the CEL-16029 or -CF42 battery charger recommended for this equipment. However, the system can be operated for short periods while connected to this charger.

Specification

Case overall dimensions	410 × 340 × 205 mm (16.2 × 13.4 × 8.1 in)
Shipping weight	3.6 kg (8 lbs) without battery
Battery	12 V 20 Ah
Battery overall dimensions	181 × 77 × 167 mm (7.2 × 3.1 × 6.6 in)