Manufacturers Servicing & 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 filed under the instrument serial number. Therefore, the 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 12 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 benefit of these undertakings will be passed on to the user. However, Casella CEL Ltd'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.

CEL and Dawe instrumentation is designed, manufactured, and serviced by:
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CASELLA CEL

CEL-400/500 SERIES SOUND LEVEL METERS ENVIRONMENTAL KIT CASES (CEL-6723 & CEL-6627) Instructions

060146
Issue 4
Aug 2002

INTRODUCTION

The CEL-6627 and CEL-6723 Environmental Cases provide a degree of weather protection for acoustic measuring instruments when they have to be left in the open.

The CEL-6627 Environmental Case (shown above) is intended for use with noise analysers in the CEL-553/573/593 series, while the CEL-6723 Case is for sound level meters in the CEL-440/480 series.

Both cases accommodate the relevant sound measuring instrument, preamplifier, sealed 12 V battery unit, power controller, optional GSM (Global System for mobile communications) mobile phone link with antenna, plus all 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 case must be left unattended, it can be locked with two padlocks (not supplied). In addition, the molded handle allows the case to be chained to convenient street furniture.

CEL-6627 ENVIRONMENTAL CASE FOR CEL-553/573/593 SERIES

CEL-6627 Schedule Of Parts

A complete CEL-6627 Environmental Case consists of the following items.

CEL-6627	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, to noise analyser and to optional CEL-6792 GSM radio modem. Captive cable for external 24 V DC power to battery controller, with weatherproof connection through the case, including a captive snap-on cap.
060146	Instructions.

The following optional items can also be supplied.

C6615/5, /10	5 m or 10 m Microphone Extension Cable.
CEL-4627	Heavy Duty Tripod
CEL-594	Outdoor Microphone Enclosure
CEL-6792	GSM Modem, complete with antenna and communications cable for sound analyser. The user must supply a suitable SIM card for the modem.
CEL-16030	12 V 30 Ah, sealed rechargeable battery. (Must be obtained locally for orders outside the UK.)
CEL-16029	Battery Charger (12 V).
C6797	Cable (2 m) between 12 V weatherproof connector and Battery Charger.

Instrument Installation

The CEL-525/527/530 preamplifiers and associated microphones must be connected to the kit case by a C6615/X Extension Cable, which is available with lengths of 5 m (16 ft) or 10 m (32.5 ft). Microphone protection is given by installing the preamplifier and microphone in a CEL-594 Outdoor Microphone Enclosure.

When a GSM modem is included, insert a suitable SIM card into the slot adjacent to the modem active lamp. The SIM card will engage the slot only with the correct orientation.

Connect the preamplifier end of the noise analyser to the captive preamplifier cable, then install the analyser in the shaped cutout. The analyser must be used only with a remote microphone attached via the weatherproof connector shown in Figure 1.

Making sure that the battery is the last item connected, couple the other equipment using the cables supplied, as also shown in Figure 1, then fit each item into its shaped foam cutout.

DO NOT confuse the co-axial plugs carrying external/charger power to the power controller and battery power to the sound analyser. They have different internal dimensions to protect the power controller.

When the system includes a GSM modem, the antenna should be kept and used in its cutout inside the case.

Once all items have been connected, the red active lamp on the optional GSM modem should light to show that power is available.

Cover the battery terminals with the plastic shield supplied. No overheating problems should occur when this equipment is enclosed within the case under normal temperate weather conditions. If the case proves difficult to open, for example after an aircraft flight, it may have become de-pressurised. Unscrew the pressure purge gland near the carrying handle to equalise the internal pressure.

Connect the cable for the microphone to the weatherproof connector. Mount the remote preamplifier, microphone and weather protection system on a tripod or other suitable fixture. Install the CEL-594 Outdoor Microphone Enclosure following the instructions supplied.

Operate the noise analyser and modem according to the operators instructions supplied with them. The external power connector is intended primarily for battery charging by the CEL-16029 Battery Charger recommended. However the system may be operated for short periods while connected to this charger.

Specification

Case overall dimensions:
520 x 427 x 214 mm
20.5 x 16.8 x 8.5 in
Shipping weight (without battery):
6 kg, 13.25 lb
Battery: 12 V, 35 Ah
Battery overall dimensions:
195 x 170 x 130 mm
7.7 x 6.7 x 5.1 in

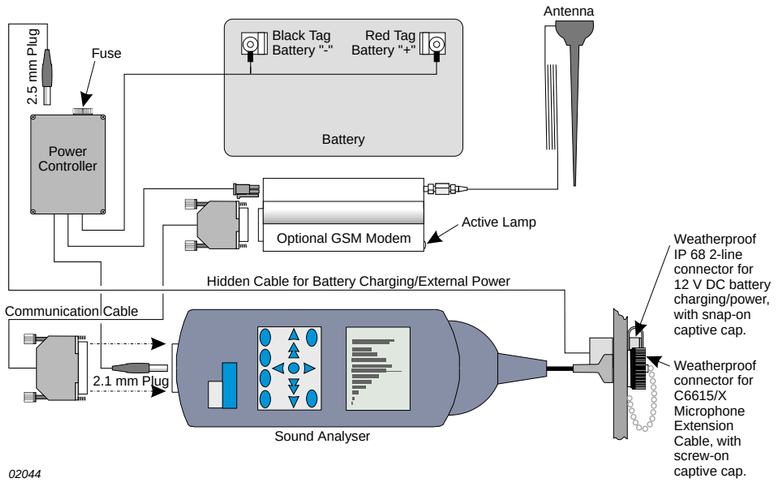

Figure 1: Schematic diagram of cable connections for the CEL-6627 Case

WARNING !
DISCONNECT the internal battery at the tags FIRST when the system is to be powered by an external 12 V battery connected via the external charging/power connector.

CEL-6723 ENVIRONMENTAL CASE FOR CEL-440/480 SERIES

CEL-6723 Schedule Of Parts

A complete CEL-6723 Environmental Case consists of the following items.

CEL-6723	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, to noise analyser and to optional CEL-6792 GSM radio modem. Captive cable for external 24 V DC power to battery controller, with weatherproof connection through the case, including a captive snap-on cap.
060146	Instructions.

The following optional items can also be supplied.

C6717/5, /10, /20, 30	5 m, 10 m, 20 m 30 m Microphone Extension Cable.
CEL-4627	Heavy Duty Tripod
CEL-6737	Outdoor Microphone Enclosure
CEL-6792	GSM Modem, complete with antenna and communication cable for sound level meter. The user must supply a suitable SIM card for the modem.
CEL-16030	12 V 30 Ah, sealed rechargeable battery. (Must be obtained locally for orders outside the UK.)
CEL-16029	Battery Charger (12 V).
C6797	Cable (2 m) between 12 V weatherproof connector and Battery Charger.

Instrument Installation

The CEL-495/485 preamplifiers and associated microphones must be connected to the kit case by a C6715/X Extension Cable, which is available with lengths of 5 m (16 ft), 10 m (32.5 ft), 20m (65 ft), 30 m (98 ft). Microphone protection is given by installing the preamplifier and microphone in a CEL-6737 Outdoor Microphone Enclosure.

When a GSM modem is included, insert a suitable SIM card into the slot adjacent to the modem active lamp. The SIM card will engage the slot only with the correct orientation.

Connect the preamplifier end of the sound level meter to the captive preamplifier cable, then install the instrument in the shaped cutout. The sound level meter must be used only with a remote microphone attached via the weatherproof connector shown in Figure 2.

Making sure that the battery is the last item connected, couple the other equipment using the cables supplied, as also shown in Figure 2, then fit each item into its shaped foam cutout.

DO NOT confuse the co-axial plugs carrying external/charger power to the power controller and battery power to the sound analyser. They have different internal dimensions to protect the power controller.

When the system includes a GSM modem, the antenna should be kept and used in its cutout inside the case.

Once all items have been connected, the red active lamp on the optional GSM modem should light to show that power is available.

Cover the battery terminals with the plastic shield supplied. No overheating problems should occur when this equipment is enclosed within the case under normal temperate weather conditions. If the case proves difficult to open, for example after an aircraft flight, it may have become de-pressurised. Unscrew the pressure purge gland near the carrying handle to equalise the internal pressure.

Connect the cable for the microphone to the weatherproof connector. Mount the remote preamplifier, microphone and weather protection system on a tripod or other suitable fixture. Install the CEL-6737 Outdoor Microphone Enclosure following the instructions supplied.

Operate the sound level meter and modem according to the operators instructions supplied with them. The external power connector is intended primarily for battery charging by the CEL-16029 Battery Charger recommended. However, the system may be operated for short periods while connected to this charger.

Specification

Case overall dimensions:
520 x 427 x 214 mm
20.5 x 16.8 x 8.5 in
Shipping weight (without battery)
5.8 kg, 12.8 lb
Battery: 12 V, 30 Ah
Battery overall dimensions:
195 x 170 x 130 mm
7.7 x 6.7 x 5.1 in

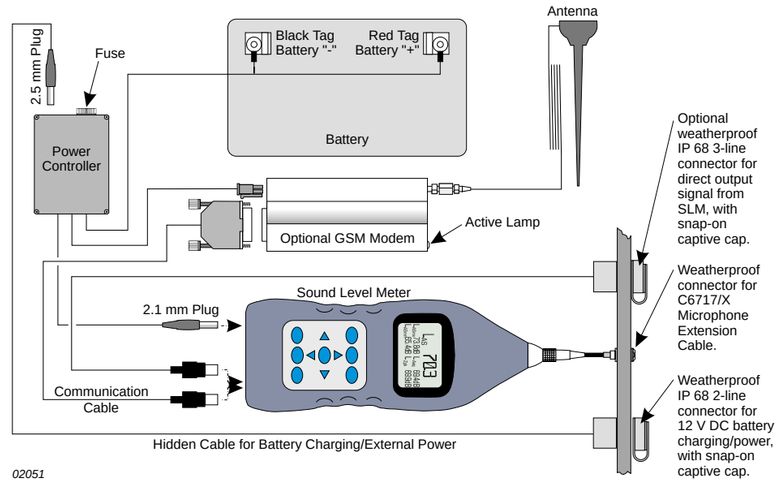

Figure 2: Schematic diagram of cable connections for the CEL-6723 Case