**LTI Remote Electrode System**

- Ultra-thin Electrode-Amplifiers
- Adjustable gain
- Thin shielded cables with strain-relief eyelets to connect the metal electrodes
- LTI Cavity-Back™ electrodes for lump-free connection to the cables

The new LTI Remote Electrode System is built around a thin Electrode-Amplifier specifically designed to be used with remote metal electrodes. This is not a modified cased electrode, but one designed specifically for test sockets, frame-type sockets and roll-on silicone sleeve suspension systems. The case measures just 31 x 17.5 x 5 mm, L x W x H, (1.2 x 0.7 x 0.2 inches). The Electrode-Amplifier has a performance similar to common cased electrodes such as the Otto Bock 13E200, and it can be used with both older batteries and the newer Li-ions. The adjustable gain permits use with both microprocessor-based and traditional controllers and terminal devices.

**Cavity-Back™ Electrodes improve cosmesis.** These metal electrodes are used in test sockets and soft inner socket applications. Attaching cables has always been a problem with separate metal electrodes. With a hard inner socket, a standard 4-40 nut followed by the cable eyelet and a second nut can add a lump 6mm (¼ inch) high. With the Cavity-Back™ feature and a soft socket liner, you will get excellent electrical continuity with just a thin washer, the cable eyelet, and the small pattern 4-40 nut supplied. These components will push the liner down into the cavity. When the stud on the electrode is cut flush with the nut, only the 2mm thick nut and cable will protrude above the surface resulting in a cosmetically appealing socket.
The Cavity-Back Metal Electrodes are available in three shapes: High, Medium and Small dome. The Medium dome is the standard or default if no other shape is specified. These are used in most applications. The High dome electrode is intended for situations where there is significant soft tissue over the muscle site to assure good contact. Finally, the Small dome is primarily for pediatric applications or for adult cases where there are severe space constraints.

A complete LTI Remote Electrode System consists of the Electrode-Amplifiers, Remote Electrode Cables of various lengths (76, 150, 300, 600 mm) and the Metal Electrodes in one of three sizes listed below. The Electrode-Amplifiers are provided with a 150mm output cable and connector for the LTI VariGrip, VASI SPM, Otto Bock and RSLSteeper prosthetics controllers. Where the manufacturer requires two inputs to one connector, these are also available. To order, just specify the number of Electrode-Amplifiers (1 or 2) and the connector type, the length of Remote Electrode Cables and the shape of the Metal Electrodes.

Remote Electrode Cables (REC). Three shielded cables attach to the Electrode-Amplifier with a detachable strain-relief clamp. Eyelets with strain-relief on the other end of each cable connect to the Metal Electrode stud with 4-40 small pattern nuts. To accommodate various prosthetic configurations, these Remote Electrode cables are offered in four standard lengths; 76, 150, 300, 600 mm. Generally, 76mm cables are used for pediatric and long residual limb trans-radial applications, 150 and 300mm for shorter trans-radial and trans-humeral applications and 600mm for high-level (i.e. shoulder disarticulation) cases.

Remote Electrode-Amplifiers:
- DC200B=50 One Remote Electrode-Amplifier, Otto Bock connector, 50Hz
- DC200S=50 One Remote Electrode-Amplifier, RSLSteeper connector. 50Hz
- VGC625=50 One Remote Electrode-Amplifier for LTI VariGrip III controller, 50Hz
- VGC626=50 Two Remote Electrode-Amplifiers for LTI VariGrip III controller, 50Hz

Cables to Connect Remote Metal Electrodes:
- REC03 Remote Electrode Cable, 76mm (3 inches)
- REC06 Remote Electrode Cable, 150mm (6 inches)
- REC12 Remote Electrode Cable, 300mm (12 inches)
- REC24 Remote Electrode Cable, 600mm (24 inches)

Metal Electrode Kits: Electrodes are supplied with appropriate nuts and washers.
- EL11 Kit of 3 EL01 High Dome Metal Electrodes – domes: (0.56” dia. x 0.19”)
- EL12 Kit of 3 EL02 Medium Dome Metal Electrodes – domes: (0.56” dia. x 0.13”)
- EL13 Kit of 3 EL03 Small Dome Metal Electrodes – domes: (0.38” dia. x 0.10”)

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