

# Electrodes & Seal-In Kit



Electrodes

State-of-the-art electronics offer outstanding capture and amplification from signals as low as 10V. Proportional output and in-built gain adjustment permits fine control of the terminal device.

Biocompatible titanium skin contacts provide superior conductivity, while interference protection shields from common power sources and high frequency emitting devices.

Suitable for either child or adult arm systems, each kit includes field replaceable spare legs and two fabrication kits, for laminate or thermoplastic sockets.

Features

- This electrode will control prosthetic devices from most major manufacturers
- Proportional output signals
- Suitable for child or adult systems
- High sensitivity (2,000-100,000 fold) and range (90-450Hz)
- Able to function with threshold control using signals as low as 10V
- Interference protection from common power sources, depending on electrode type and high frequency emitting devices
- An Electrode Gain Control (EGC) is included to allow control of the myoelectric signal providing optimal control of the terminal device
- Two fabrication options included in the kit

ELEC50

Light grey



- Provides interference protection in countries operating 50Hz mains power systems (see map overleaf).
- Appropriate control device for prosthetic devices from all major manufacturers.
- Titanium contacts for optimum conductivity of signal and biocompatibility.

ELEC60

Dark grey



- Provides interference protection in countries operating 60Hz mains power systems (see map overleaf).
- Appropriate control device for prosthetic devices from all major manufacturers.
- Titanium contacts for optimum conductivity of signal and biocompatibility.

Electrode - ELEC50 / ELEC60

Dimensions (LxWxH)	27 x 18 x 10mm
Weight	4,4g
Power Supply	5 to 16V*
Frequency Bandwidth	90 to 450Hz
Temperature Range	-15°C to 60°C

The electrode (ELEC60/ELEC50) is designed and manufactured by Steeper. It is the same size and shape as electrodes from other manufacturers and can be directly fitted into the cavities prepared for those electrodes.

\*Steeper batteries recommended

Seal-In Kit

The Seal-In Kit is designed for use with the supplied high performance ELEC50/ELEC60 electrode.

Features

- Outstanding vacuum retention in suction sockets
- Prevents moisture ingress into prosthesis
- Available in 50Hz or 60Hz
- Suction Kit available as spare or for upgrading existing electrodes
- Suitable for Laminated, Thermoplastic or Silicone sockets

The mounting method stabilises the electrode within the inner socket and allows a sealing gasket to maintain an airtight seal. This allows practical applications in suction sockets, providing excellent socket retention and maintenance of fit. The seal also helps to prevent moisture ingress from the inner socket reducing risk of damage to components housed within the prosthesis.

The Seal-In Kit is available in 50Hz or 60Hz versions and each kit consists of all necessary formers to manufacture in Laminate, Thermoplastic or Silicone as well as including the advanced Steeper electrode. This allows the user to benefit from state of the art electronics, advanced signal capture and processing, bio-compatible titanium contacts as well as the security and comfort of a suction socket.

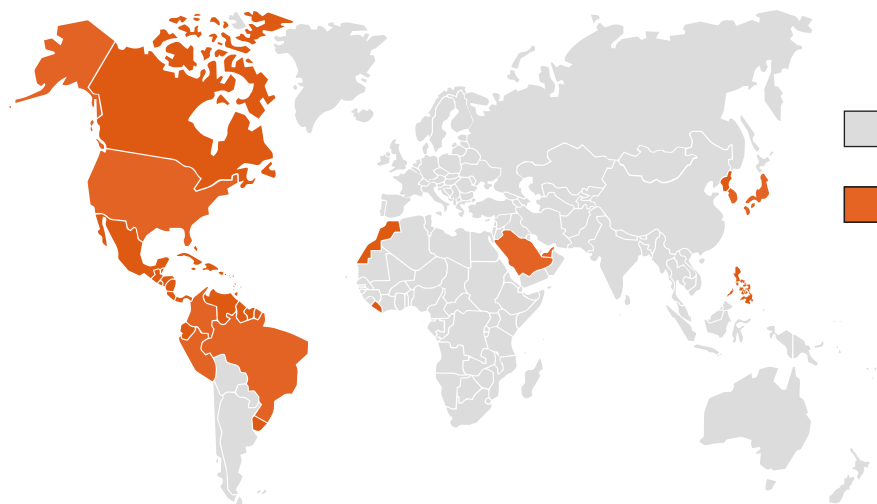


A separate kit exists consisting purely of the mounting and sealing components. This is intended to allow upgrade of existing non-suction mounted electrodes (ELEC50 & ELEC60 only) as well as providing easy access to spares for maintenance and socket replacement.


Seal-In Kit

Dimensions (LxWxH)	35 x 27 x 10mm
Weight	<1g
Compatible With	ELEC50 / ELEC60

## Mains power system map



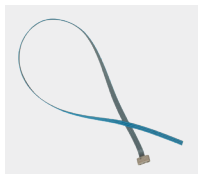
 50Hz electrode (ELEC50) should be used in these areas.

 60Hz electrode (ELEC60) should be used in these areas.

## Electrodes Ordering Information

Two options available with interference protection for countries with either 50Hz or 60Hz mains power supply.

Part Number	Description
ELEC50	50Hz Electrode
ELEC60	60Hz Electrode



To order **electrode cables** use part number ECA=300, ECA=600 or ECA=1000 depending on cable length required.

## Seal-In Kit Ordering Information

The **Seal-In Kit** is fully compatible with existing electrode cables ECA300/600/1000.

Part Number	Description	Consists of
ELSK50	Seal-In Electrode 50Hz	ELEC50 + Seal-In Kit (ELSK)
ELSK60	Seal-In Electrode 60Hz	ELEC60 + Seal-In Kit (ELSK)
ELSK	Seal-In Kit	Mounting Kit for Upgrade/Spares

SteeperUSA, 8666 Huebner Road, Suite 112,  
San Antonio, TX 78240, USA

Tel: 210 481 4126  
Email: [inquiries@steeperusa.com](mailto:inquiries@steeperusa.com)

[www.steeperusa.com](http://www.steeperusa.com)

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