Nerve Electrodes and Accessories

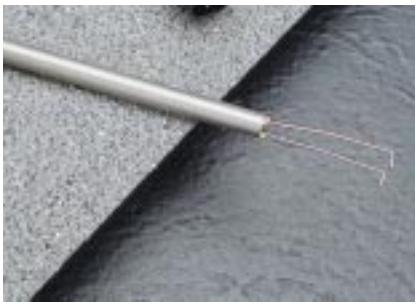
Phrenic Nerve Electrode

- Available with or without oxygen bubbler
- For use primarily with rat diaphragm preparations

The short horizontal foot of this plastic body Electrode, to which the costal segment is attached, carries a single-pole wire. A stainless steel latch is pivoted on the end of the foot and clamps the costal segment against the indirect-stimulation electrode wire. The latch is secured by a knurled screw located at the end of the Electrode body. The diaphragm tendon is connected to the transducer or writing lever by a piece of fine stainless steel wire, which then acts as the second electrode for direct stimulation.

The nerve grip, located on the Electrode shank, consists of a plunger and a U-shaped piece of plastic. The plunger pushes down and locks the nerve ending against the two electrode wires that are exposed in the base of the "U". Once set, the plunger can be locked in place. The entire nerve holder can be moved along a 25 mm (1 in) portion of the Electrode to maintain proper tension on the nerve. Once adjusted, the entire unit can be locked in place. The Electrode assembly is mounted on a 6.5 mm (1/4 in) diameter rod. This electrode is available with and without an oxygen bubbler. The Electrode with Oxygen Bubbler.

Catalog No.	Product
CGS 8789.71	Phrenic Nerve Electrode with Oxygen Bubbler
CGS 8790.71	Phrenic Nerve Electrode without Oxygen Bubbler



Screened Electrode

- Double poles

This Electrode has a 6.5 mm (0.25 in) diameter, 17.5 cm (6.9 in) nickel-plated brass tube that carries two 0.5 mm (0.02 in) diameter, 4 cm (15 in) silver wires. The electrode has 1 m (3.3 ft) screened leads (screening connects to the outer metal tube) and terminate in a 3-pin DIN for connection to the AH 50-8259 Electrophysiological Teaching Unit, see following page, and the Battery Powered AC/DC Preamplifier.

Catalog No.	Product
CGS 8791.71	Screened Electrode

Nerve Conduction Chamber

- For the measurement of the speed of electrical impulses in an isolated nerve preparation

This unit consists of a clear plastic chamber, electrodes and a plastic cover. Fifteen electrode wires extend from side-to-side. All are 5 mm (0.2 in) apart and may be used for stimulation and for receiving impulses. Each electrode terminates in a socket for use with 2 mm plugs. The inside dimensions of the chamber are, H x W x D, 2.5 x 7.9 x 3.2 cm (1 x 3-1/8 x 1.25 in). The Chamber has a 6.5 mm (0.25 in) diameter, 10 cm (4 in) stainless steel mounting handle.

Catalog No.	Product
CGS 8793.71	Nerve Conduction Chamber

Electrode Holder

The two spring clips on this Electrode Holder hold electrodes with diameters up to 6.5 mm (1/4 in). The 12.7 mm (1/2 in) long Electrode Holder head can be swiveled until the electrode is in the desired position. A friction device passes through the 9.5 mm (3/8 in) diameter, 132 mm (5.2 in) handle of the Holder and is operated by a knurled knob at the end. When the knob is rotated a half-turn, the ball and socket joint is locked and the electrode is held securely in place.

Catalog No.	Product
CGS 8792.71	Electrode Holder

Electrode Clamp

This ball and socket Clamp permits the precise positioning of electrodes with diameters up to 6.5 mm (0.25 in). The electrode snaps into two spring clips which are mounted on a ball that is precisely positioned and locked in a socket by a knurled screw. This clamp can be mounted either vertically or horizontally on a standard 9.5 mm (3/8 in) rod.

Catalog No.	Product
CGS 8794.71	Electrode Clamp