Rev 180405

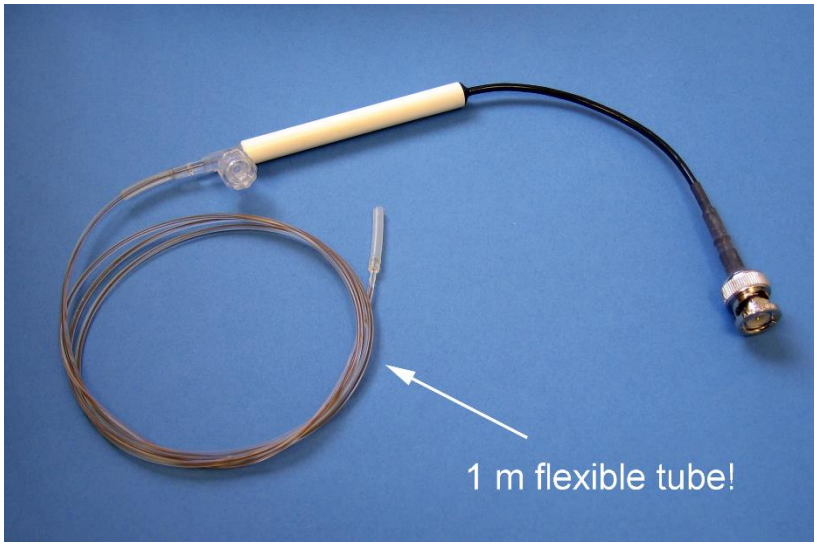
Care and Use of the Combination Gastroesophageal pH Electrode

Model IC-601

The **IC-601 Combination pH electrode for gastroesophageal measurements** is the smallest available pH electrode that does not require an external reference since the reference electrode is already integrated.

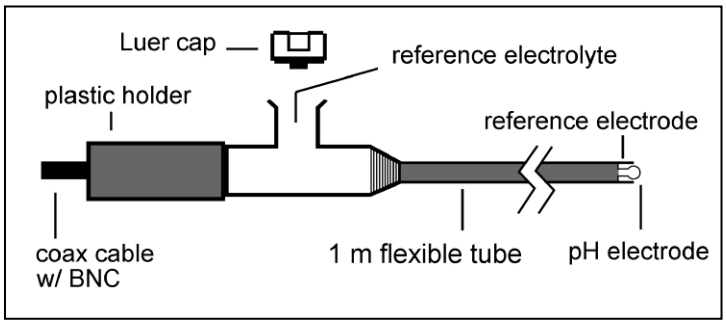
This unique apparatus incorporates a miniature electrode assembly mounted into a flexible, biosafe tube. The tube measures 1 m x 1.8 mm (L x OD) and provides protection to the internal miniature glass pH sensor.

This design as well the small OD of the tube allows this electrode to be used *in situ*.



Setup

The electrode is shipped pre-filled with reference solution (3 M NaCl in 40% glycerol). If necessary, additional reference solution can be added or replaced by filling the tube through the port on the electrode body. A Luer cap secures this port when not in use.



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Calibration

The pH meter and electrode must be calibrated before use.

1. Connect the electrode to a pH meter and remove the protective sleeve from the tip.
2. Place the electrode tip into a pH 7.0 reference standard and set the meter to pH 7.0.
3. Place the electrode tip into either a pH 4.0 or pH 10.0 reference standard and set the meter to the respective value.

Alternatively, one can connect the electrode to a voltmeter and measure the potential at two well defined pH values. A simple, linear plot between these two values will return the correct pH at any reported potential within these extremes.

Storage

The electrode tip is stored wet. A small vial filled with reference solution is provided.

Specifications

Response time	Approximately 10 seconds in well stirred environment
Stability	0.05 pH/day, maximum
Electrode slope	55.8 mV/pH in the pH range of 1-14
Impedance	Typically 300 MΩ
Connecting cable	15.2 cm (6 in) with BNC
Dimensions	Flexible tube: 1 m x 1.8 mm (L x OD) Terminal pH electrode: 2.2 mm (D)
Note:	Temperature in excess of 60°C will permanently damage the electrode.