

Electrode Amplifier

(Order Code NavEA)

Use our Electrode Amplifier to collect data with almost any combination style electrode fitted with a BNC connector. This includes electrodes from Forston Labs such as our pH electrode, or third-party electrodes, such as pH, ISE (ion-selective electrode), or ORP (oxidation-reduction potential). The Electrode Amplifier can produce an output in mV, pH (when using a pH electrode), or you can perform your own 2-point, linear calibration.

How the Electrode Amplifier Works

The Electrode Amplifier is a circuit which allows the millivolt output of the electrode to be monitored by the LabNavigator™. The electrode is connected to the BNC connector on one end of the amplifier. The cable from the Electrode Amplifier connects to the interface.

The Electrode Amplifier amplifies the voltage produced by an electrode into a range where it can be monitored by the LabNavigator.

The Electrode Amplifier will report values in units of millivolts. If a pH electrode is attached, however, you can choose to read in units of pH. Custom, linear 2-point calibrations can also be performed if desired.

Collecting Data with the Electrode Amplifier

Here is the general procedure to follow when using the Electrode Amplifier:

1. Connect the Electrode Amplifier to the LabNavigator.
2. Connect an electrode that has a BNC connector to the Electrode Amplifier.
3. The software will identify the Electrode Amplifier and load a default data-collection setup (Displaying in mV). You are now ready to collect data.

Electrode Amplifier Specifications

Power		7 mA @ 5VDC
Input range		-450mV to +1100 mV
Impedance		100M Ohm
Gain		2.2 V/V
Offset		1.20 V (nominal)
Stored calibration (mV)	slope	466.875
	intercept	-559.793
Stored calibration (pH)	slope	-7.752
	intercept	16.237

This sensor is equipped with circuitry that supports auto-ID.

Warranty

Forston Labs warrants this product to be free from defects in materials and workmanship for a period of three years from the date of shipment to the customer. This warranty does not cover damage to the product caused by abuse or improper use.



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