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<http://sensors-vns.com> ; <http://sensors-vns-opc.com>

Product Specification

Product Name: Amperometric Detector SEN-ECD-A-01

Electroactive species as an analyte can be oxidized or reduced at the surface of working electrode thus can be detected under amperometric mode of electrochemical processes. A voltage as a function of depolarization potential of analyte is applied between two electrodes i.e.: Reference electrode (RE) and working electrode (WE); positioned in electrochemical cell. The targeted electroactive species undergo oxidation/reduction and a current as a function of analyte concentration flow between WE and an auxiliary or counter (CE) electrode. Thus the detection system of such current changes as an important requirement for electrochemical science and technology. SEN-ECD-A-01 is a battery operated low cost specially designed amperometric detector with option to manipulate the applied potential between WE and RE and also the time delay as a function of response time of the electrochemical sensing system. The applied potential can be adjusted to maximize the response for the analyte of interest while minimizing the response for interfering analytes.



SEN-ECD-A-01 is equipped with inbuilt three electrodes (i.e WE, RE and CE) connector specially designed for precise connecting to electrochemical cell. In addition system may be usable with all kind of screen printed. Such outcome is first time introduced in Indian market and may be used with conventional electrochemical cell. SEN-ECD-A-01 is a portable battery operated system specially designed for amperometric measurement at the site of targeted location. **The online performance of the device can be visualized from the following video link.**

<https://youtu.be/R52Tc8b3c-c>