

## High Impedance Medium Voltage Differential Amplifier type Ex06



### Features

- High input impedance, suitable for Ph probes, reference electrodes, selective chemical electrodes.
- Fully differential input, enables for relative measurements
- Input levels up to 50 Volts, for demanding applications
- Over range indication, enables for reliable use of the instrument
- Shielded BNC input and output connectors

### Technical specifications

Input range	-50 .. +50 V
Input current	25 fA plus leakage current from connectors and cabling.
Input impedance	$> 10^{15} \Omega$
Input offset	less than 60 $\mu$ V
Input overload	optical indication at -50 and +50 Volts, each input.
Output range	-10 .. +10 V
Output impedance	100 $\Omega$
Gain error	max 0.2 %
Power requirement	12V DC regulated, less than 50 mA. Power supply included.

### Overview

High impedance front-end amplifier for laboratory use. Useful as a high impedance input section for Ph-electrodes, reference electrodes or selective anion and cation electrodes.

A differential input enables potential free measurement and the output is a voltage signal which can be logged by a datalogger or displayed with a multimeter.

Using conventional inputs on electrochemical measurement electrodes will degrade these electrodes due to the relatively high measuring current. The inputs of this amplifier have an extremely high impedance resulting in a nihil load on the measuring element and consequently a longer lifetime of the measurement element.

### Options

- Guarded inputs: resulting in further reduction of input leakage
- Gain adjustment