



## Contactless Conductivity Detector (ER815)



Contactless Conductivity Detector



C4D Headstage ET120  
(not included)

### Applications

- Capillary electrophoresis (CE)
- Ion chromatography (IC)
- Microchip electrophoresis (MCE)
- Flow injection analysis (FIA)

### Description

The ER815 is a capacitively-coupled contactless conductivity detector (C<sup>4</sup>D) for capillary electrophoresis, microchip electrophoresis, ion chromatograph/HPLC and flow injection analysis.

### Compatibility

This instrument is available in the following configurations:

- ER815R: includes PowerChrom software, for capillary electrophoresis, microchip electrophoresis and chromatography-type applications.
- ER815C: includes Chart software, for flow injection analysis and conductivity monitoring applications.

- ER815: for people wishing to use third-party software to record the data. This includes ChemStation from Agilent, 32 Karat from Beckman Coulter and LabVIEW (using the virtual serial interface over USB connection to computer). In this configuration, both analog and serial data outputs are provided.

It is compatible with most CE and IC systems, including Agilent, Beckman Coulter, PrinCE and WYnSep instruments.

The unit must be used together with an eDAQ C4D headstage suitable for your application. It is compatible with all eDAQ headstages and platforms, including the ET120 for capillary electrophoresis, the ET125/ET130/ET131 for ion chromatography, flow injection analysis and other applications, and platforms for microchip electrophoresis.

### Specifications

Channels:	1
Input connector:	10 pin LEMO (for C4D headstage)
Signal gain:	x1, x10, x100
Analog signal resolution:	16 bits (Chart software) 24 bits (PowerChrom software)
Virtual serial port resolution	24 bit
Input gain ranges:	±20, 50, 100, 200, 500 mV ±1, 2, 5 V
Excitation frequency:	20 – 2000 kHz
Excitation amplitude:	200 V peak-to-peak max with headstage/ platform, sinusoidal AC, @ <50 mA
Offset:	±5.5 V on ±10 V output range

Low pass filters:	1000 (off), 10, 1 Hz
Output signals:	±5 V max, or USB with virtual serial interface
Back panel connectors:	BNC (analog voltage) USB (virtual RS232 serial)
Power requirements: (mains adaptor supplied)	12 V DC, ~10 W
Dimensions (h × w × d):	65 × 200 mm × 250 mm (2.6 × 7.9 × 9.8")
Weight:	1.8 kg (4.3 lb) maximum
Operating temperature:	0 to 35 °C 0 to 90% humidity (non-condensing)
<i>eDAQ reserves the right to alter these specifications at any time.</i>	

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