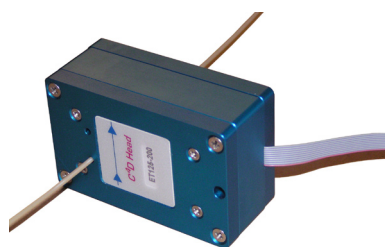




IC/HPLC C4D Detector Headstage (ET130)



ET130 with $\frac{1}{16}$ inch tubing

- Compatible with many IC, HPLC and FIA instruments
- Compatible with all eDAQ C⁴D units
- Internal electrodes never require maintenance or cleaning

Description

The ET130 headstage can be connected to any eDAQ C⁴D unit to make a contactless conductivity detector (C⁴D) for ion chromatography, HPLC and flow injection analysis.

The tubing from the chromatography instrument can be slide directly into the headstage (it designed for tubing with 125 μ m ID and 1600 μ m OD) or it can be connected to the tubing provided with the headstage. Inside the headstage, a high frequency AC signal is passed between a pair of internal ring electrodes around the tubing. The conductivity of the solution affects the received AC amplitude.

The ET130 can record conductivities between 150 μ S/cm to 15 mS/cm. The C⁴D electrodes spacing is set to a minimum to resolve analyte peaks.

The sample doesn't come into contact with the detector electrodes so it is easy to analyse hazardous, corrosive or radioactive liquids. There is no electrode deterioration or polarization.

Specifications

Mechanical	
Tubing in headstage:	1600 μ m OD, 125 μ m ID
Electrode length:	5mm
Electrode separation:	4mm
Size:	63 mm x 39 mm x 27 mm
Weight:	125 grams
Electrical	
Output voltage:	-0.100 to +5.00 volts
Linear Range:	+0.100 to 2.500 volts
Excitation Level:	1 to 100 volts peak to peak

Compatibility

The ET130 headstage can be used with any eDAQ C⁴D unit. It is compatible with different chromatography instruments from different manufacturers.

The headstage adapter cable is included with the C⁴D unit, not with the ET130. The correct adapter depends on which C⁴D unit is being used: the EC1210 adapter is used with the ER815 and ER825, while the EC1208 adapter is used with the ER225, EA120 and ER125.

Applications

The ET130 has been used for:

- An HPLC-C⁴D method to analyze degree of methylation of pectin.
- Liquid chromatography with C⁴D for the analysis of polar compounds using aminoglycosides.

Other applications may be covered using the ET125 or ET131 headstages.

Excitation Frequency:	50kHz to 200kHz +/-1db
Gain x1 =	100 mV/ μ A
Gain x5 =	500 mV/ μ A
Frequency response:	0-10 Hz (3dB point)
Noise:	< 3 μ V RMS 0-10Hz measured over 1 sec (shielded environment)
Drift:	< 3 μ V/ $^{\circ}$ C measured with no capillary
Power supply:	+/-5 volts +/-5% @50 mA
Conductivity range:	150 μ S/cm to 15 mS/cm
<i>eDAQ Pty Ltd reserves the right to alter these specifications at any time.</i>	

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