TECHNICAL CHARACTERISTICS

- Response time: < 60 s
- Working Temperature: 5-50ºC
- Minimum required volume: 0.5ml
- ISAB: Not required *

	Cl
Slope (mV/dec)	-54 ± 5
Linear Range (mg/L)	1.3 to 35000
Linear Range (mol/L)	3.7×10^{-5} to 1
pH Range	2 to 12.5
Main interferences[1] (log Kij)	Chloride electrode will be irreversibly damaged if immersed in solutions containing I-ions. Chloride electrode will not give reliable readings if more than a trace of Ag or S ions are present in solutions

[1] There is a high interference from Bromide and Cyanide ions.
Chloride electrode will only give reliable results if these ions are present in very low concentration compared to chloride ions.

ADDITIONAL EQUIPMENT

- Ion METER or an equivalent meter: pH/mV-meter with resolution of 0.1mV.
- Connection cable
- Reference electrode

REAGENTS

- Deionized water to prepare solutions and rinse the probe.
- Standard and conditioning solutions.

* For highly accurate measurements, when the uncertainty required must be very low, we recommend the use of ISAB.

Preparation and Use of ET1602

Before using the ET1602, it is recommended to read the instructions of your meter.

Condition the ET1602 in a solution of the target ion of 1000 ppm for at least 10 minutes[1] before use.

(1) If the electrode is new or has been without use for a long time or has been in contact with interference containing sample, conditioning time is recommended to be 8 hrs or until stable potential reading.

If target concentration is lower than 100ppm, it is recommended a second conditioning process in 100ppm for at least 10 minutes.

1. Plug the BNC terminal of the ET1602 to the meter.

2. Calibrate the electrode. [2,3]

(2) Regarding the complexity of the sample matrix and some different factors, the analytical procedure could be direct calibration or different analytical techniques such as the standard addition, etc.

(3) To calibrate the electrode, reference electrode MUST be connected to the meter.

3. Rinse with DI water and dry the outer body with tissue.

4. Measure the sample.

5. Rinse with DI water and dry the outer body between each sample measure.

6. Keep dry and clean with protective cap

* Presence of solid particles in suspension and turbid solutions do not affect to the overall performance of the electrode.

Recommendations

Follow the instructions for optimal preservation of the electrode.

Keep constant the same conditions of temperature, stirring, both in samples and standards.

Great care has to be taken in regards to NOT damaging the tip. The electrode can be irreversibly damaged if this part is hit or grated.

Warranty

Electrodes are guaranteed of any manufacturing defect.

The warranty of the electrodes **does not** cover the defects caused by:
- inadequate use
- the usual aging of the electrode
- the logic premature aging caused by certain samples
- accidental damage

The warranty of ET1602 is valid for a period of 6 months.
To obtain a warranty repair/replacement you must first notify us before return of the instrument and we will issue you with a RMA (return merchandise authority).

Please refer to eDAQs warranty page on eDAQs website https://www.edaq.com/warranty-and-licensing.

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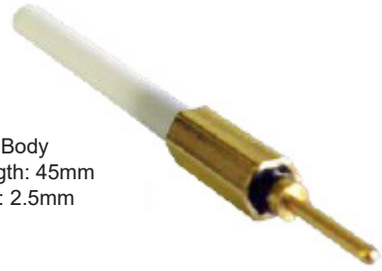
Sensing Area



PE Body
length: 45mm
OD: 2.5mm

Connector pin 1mm

Chloride Ions Electrode (Cl)

MAINTENANCE AND STORAGE

- The ET1602 does not require maintenance due to not containing internal liquid solutions.
- Place the protective cap on electrode when not in use.
- Do not leave the sensing area in contact with air/atmosphere for longer time than necessary,
- Storage at temperatures below 50ºC.
- Storage in a dry, cool place avoiding the direct contact with the sunlight.

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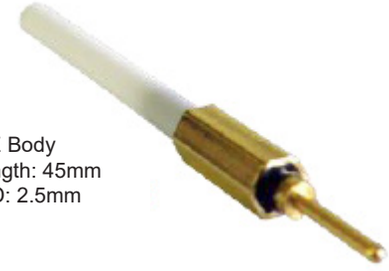
ET1602

Chloride Ions Electrode (Cl)

Instructions

Sensing Area



PE Body
length: 45mm
OD: 2.5mm

Connector pin 1mm

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