TECHNICAL CHARACTERISTICS

- Response time: < 60 s
- Working Temperature: 5-50ºC
- Minimum required volume : 0.5 mL
- ISAB: No needed*
- Specifications:

	pH
Slope (mV/dec)	54 ± 5
pH range	4 to 10

ADDITIONAL EQUIPMENT

- NT ION METER or an equivalent meter: pH/mV-meter with resolution of 0.1mV.
- Connection cable ref, *CC_1BNC-SC2 for Mini2.5-M001. Or Single ION Probe for Mini 4.6-MD001*
- Reference electrode (Code: M*RX11*) or an equivalent.
- Flasks and pipettes.

REAGENTS

- Standard and conditioning solutions of the primary ion to be determined.
- NOTE: pH 4 Buffer have not to contain phtalate. The electrode will have an uncorrect sensitivity when exposed to solutions containing phthalate.

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

PREPARATION AND USE OF CNT ISE MINI

Before using the CNT ISE MINI, it is recommended to read the instructions of your meter.

Condition the CNT ISE in a solution of pH 4 at least for 10 minutes[1] before use.

The tip/sensing area cannot touch the any surface/ or the bottom from the glass/frask.

(1) If the electrode is new, has been prolonged time without use, or has been in contact with interference containing samples, condition time is recommended to be 8 hours or until stable potential reading.

1. Plug the CNT ISE 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 must have a reference electrode connected to the meter.

3. Rinse with DI water and dry the outer body with a clean tissue.
4. Measure the sample.
5. Rinse with DI water and dry the outer body of the probe between each sample measure.
6. Keep dry and clean with the protective cap.

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

RECOMENDATIONS

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

✓ Follow the instructions for better conservation of the electrode.

✓ Great care has to be taken to do not damage the tip. The electrode can be irreversibly damaged if this part is hit or grated.

GUARANTY

Electrodes are guaranteed of any manufacturing defect.

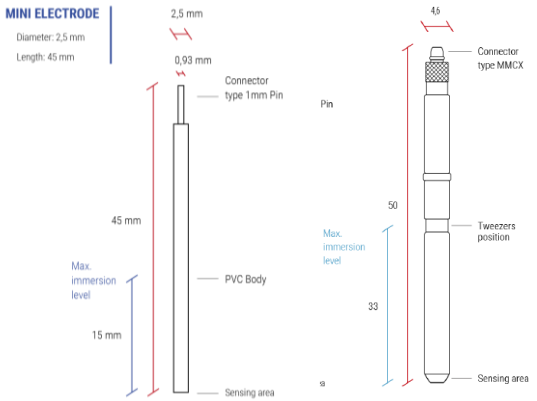
NT Sensors will replace without additional cost the Electrodes which, after being revised by its technical post-service have been considered as “defect from origin”.

The Guaranty 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,
-the damaged caused by accident.

The guaranty is valid through a period of 6 months. *For more information visit NT Sensors user guide on –line.*

CNT_ISE MINI:
ION SELECTIVE ELECTRODE



MAINTENANCE AND STORAGE

- ✓ The CNT ISE MINI does not require maintenance due to not contain internal liquid solutions.
- ✓ Dry-storage. Store the electrode in the storage container when not use.
- ✓ Do not leave the sensing area in contact with air/atmosphere for longer time than necessary.
- ✓ Storage at temperatures below 25ºC.
- ✓ Storage in a dry, cool place avoiding the direct contact with the sunlight.

CNT_ISE M001

Electrode to determine ions (pH) in aqueous solutions

Simply and fast

Minimum volume consumption of reagents and samples

Does not require any special maintenance

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pH Electrode

CNT_ISE M001

MD001