



854 iConnect

2.854.0010

The 854 iConnect – Electrode cable and measuring amplifier for intelligent "iTrodes" electrodes (cable length 150 cm).

Below, the accessories are grouped into Scope of delivery and Optional accessories.

Please keep this printout at hand for ordering replacement material.

These lists may be subject to change.

Scope of delivery 2.854.0010

Qt.	Order no.	Description
1 PCS	1.854.0010	854 iConnect
		854 iConnect - electrode cable and measuring amplifier for intelligent electrodes «iTrodes».



Optional accessories

Order no.	Description
6.00450.300	<p>Combined iAg-ring electrode</p> <p>Intelligent, combined silver ring electrode with integrated memory chip for storing sensor data.</p> <p>This electrode is suitable for precipitation titrations when the pH value varies (titrant silver nitrate) of, e.g.:</p> <ul style="list-style-type: none">• chloride, bromide, iodide• sulfides• hydrogen sulfide• mercaptans• cyanides <p>The fixed ground-joint diaphragm is insensitive to contamination and the permanently fused-in silver ring is resistant to more highly concentrated acids and saline solutions.</p> <p>$c(\text{KNO}_3) = 1 \text{ mol/L}$ is used as reference electrolyte and storage solution.</p>
6.00470.300	<p>iAg Titrode</p> <p>Intelligent, combined silver ring electrode with a pH glass membrane as reference electrode and integrated memory chip for storing sensor data.</p> <p>This maintenance-free electrode is suitable for precipitation titrations when the pH value remains constant (titrant silver nitrate), for example of:</p> <ul style="list-style-type: none">• Chloride, Bromide, Iodide• Sulfides• Hydrogen sulfide• Mercaptans• Cyanides <p>This electrode is stored in distilled water.</p> <p>Depending on the application, we recommend using an Ag Titrode with Ag_2S coating, which can be ordered accordingly.</p> <p>iTrodes can be used on Titrand, Ti-Touch or 913/914 meters.</p>



6.00470.300BR iAg Titrode with AgBr coating

Intelligent, combined silver ring electrode with a pH glass membrane as reference electrode and integrated memory chip for storing sensor data. The silver ring is coated with bromide (AgBr) for a higher sensitivity and a better limit of detection.

This maintenance-free electrode is suitable for precipitation titrations when the pH value remains constant (titrant silver nitrate), for example of:

- Chloride, Bromide, Iodide
- Sulfides
- Hydrogen sulfide
- Mercaptans
- Cyanides

This electrode is stored in distilled water.

iTrodes can be used on Titrando, Ti-Touch oder 913/914 meters.



6.00470.300S iAg Titrode with Ag₂S coating

Intelligent, combined silver ring electrode with a pH glass membrane as reference electrode and integrated memory chip for storing sensor data. The silver ring is coated with sulfide (Ag₂S) for higher sensitivity and a better limit of detection.

This maintenance-free electrode is suitable for precipitation titrations when the pH value remains constant (titrant silver nitrate), for example of:

- Chloride, Bromide, Iodide
- Sulfides
- Hydrogen sulfide
- Mercaptans
- Cyanides

This electrode is stored in distilled water.

iTrodes can be used on Titrando, Ti-Touch oder 913/914 meters.



Intelligent, combined pH electrode with integrated memory chip for storing sensor data and with Pt1000 temperature sensor for pH measurements/titrations in ion-deficient aqueous media (e.g., drinking water, process water). This electrode shows a very short response time in these samples.

The fixed ground-joint diaphragm is insensitive to contamination.

When $c(\text{KCl}) = 3 \text{ mol/L}$ is used as bridge electrolyte, storage in storage solution is recommended.

The bridge electrolyte can be easily replaced with a chloride-free electrolyte (e.g., potassium nitrate $c(\text{KNO}_3) = 1 \text{ mol/L}$ (6.2310.010)).

Storage in the used bridge electrolyte.

iTrodes can be connected to Titrando, Ti-Touch, or 913/914 meters.



Intelligent, combined pH electrode with integrated memory chip for storing sensor data and Pt1000 temperature sensor. This electrode is particularly suitable:

- for pH measurements and titrations in difficult, viscous, or alkaline samples
- at elevated temperatures
- for long-term measurements

The fixed ground-joint diaphragm is insensitive to contamination.

Reference electrolyte: $c(\text{KCl}) = 3 \text{ mol/L}$, storage in storage solution.

Alternatively: reference electrolyte for measurements at $T > 80^\circ\text{C}$: Idrolyte, storage in Idrolyte.

iTrodes can be connected to Titrando, Ti-Touch or 913/914 meters.



Intelligent, combined pH electrode with integrated memory chip for storing sensor data for all non-aqueous acid/base titrations.

The glass membrane is optimized for poorly conducting solutions, and thanks to the flexible ground-joint diaphragm, the electrode is well suited for contaminated samples. This electrode can be used with non-aqueous reference electrolytes (lithium chloride or tetraethylammonium bromide). Storage in the respective reference electrolyte.

iTrodes can be connected to Titrando, Ti-Touch, or 913/914 meters.



6.0280.300

iEcotrode Plus

Intelligent, combined pH electrode with integrated memory chip for storing of sensor data. This electrode is suitable for aqueous acid/base titrations.

The fixed ground-joint diaphragm is insensitive to contamination.
Reference electrolyte: $c(\text{KCl}) = 3 \text{ mol/L}$, storage in storage solution.
iTrodes can be connected to Titrando, Ti-Touch or 913/914 meters.



6.0451.300

Combined iPt ring electrode

Intelligent, combined platinum ring electrode with integrated memory chip for storing sensor data.

This electrode is suitable for redox titrations where the pH value varies, e.g.:

- Oxygen content according to Winkler
- Determination of hydrogen peroxide with KMnO_4
- Diazotization titrations

$c(\text{KCl}) = 3 \text{ mol/L}$ is used as reference electrolyte and for storage.
iTrodes can be used on Titrando, Ti-Touch or 913/914 meters.



6.0471.300

iPt Titrode

Combined platinum ring electrode with a pH glass membrane as reference electrode and integrated memory chip for storing sensor data.

This maintenance-free electrode is suitable for redox titrations when the pH value remains constant, e.g.:

- Iodometry
- Chromatometry
- Cerimetry
- Permanganometry

This electrode is stored in distilled water.
iTrodes can be used on Titrando, Ti-Touch oder 913/914 meters.

