

6.0262.100 Ecotrode Plus: It could hardly be any better!



Universally applicable, enduring and rapid: the new 6.0262.100 Ecotrode Plus.

Metrohm Ltd. is the market leader in titration, our titrators «Made in Switzerland» set the standards throughout the world. The electrode, the heart of every titration system, must also meet these high demands as otherwise the investment in the titrator would be in vain. For many years now the 6.0232.100 Ecotrode has been our well-proven «workhorse» for routine pH titration. It offers a very attractive price-performance ratio; however, the ceramic pin diaphragm limits its use to precipitate-free samples.

The Ecotrode Plus with fixed ground-joint diaphragm – the new standard for pH titration!

The continually increasing success of our Unitrode and Aquatrode Plus in pH measurement shows that the fixed ground joint is the more universal type of diaphragm. It is largely insensitive to contaminants and requires only minimal maintenance. The fixed ground-joint diaphragm is suitable for a wide range of samples, from clear, ion-deficient solutions up to highly concentrated suspensions or emulsions. Its greatest strength, however, is its precision: The fixed ground-joint diaphragm allows low-noise potential measurements that depend only to a minimal extent on the ionic strength and stirring speed, thus meeting the crucial requirements for a rapid and precise titration.

In order to utilize the advantages of the fixed ground-joint diaphragm to the full extent in titrations, a new type of membrane glass has also been developed for the Ecotrode Plus. In addition to a short response time*, this membrane glass exhibits excellent long-term behavior; even if used continuously, it is largely unaffected by aging. With the Ecotrode Plus you document the changes in the sample and not the aging of the electrode!

The 6.0262.100 Ecotrode Plus is the result of 60 years' experience in pH measurement techniques, ultramodern production technology «Made in Switzerland» and our continuous striving to optimize our products. In many ways this new MetroSensor represents a clear improvement of our time-tested 6.0232.100 Ecotrode.

* By the way: Rapidity is not witchcraft, but rather a question of correct electrode storage! For the Ecotrode Plus, just as for all other combined pH glass electrodes with $c(\text{KCl}) = 3 \text{ mol/L}$ as the reference electrolyte, Metrohm recommends the patented 6.2323.000 storage solution. This solution prevents the aging of the glass membrane and thus guarantees short response times over long periods of time.



Technical specifications

pH range	0...13
Temperature range	0...80 °C
Shaft length	125 mm
Shaft diameter	12 mm
Shaft material	Soft glass
Minimum immersion depth	15 mm
Electrode head	Metrohm plug-in head G
Membrane glass	E glass
Membrane shape	Hemispherical
Diaphragm	Fixed ground joint
Reference electrolyte	$c(\text{KCl}) = 3 \text{ mol/L}$
Electrolyte outflow	5...30 $\mu\text{L/h}$
Reference system	LL system