

Intellical ISENO318101 Nitrate (NO_3^-) Ion Selective Electrode (ISE) with Calibration Reagents Pack

Product #: **ISENO3181AP**

ZAR Price: Contact Hach
Ships within 3 days

The Intellical Nitrate ISE Analysis Package contains all you need to start measuring nitrate (NO_3^-) with your HQD meter instrument: The Intellical ISENO3181 Nitrate ISE with 1 m cable, 500 mL bottles of 1 mg/L, 10 mg/L and 100 mg/L of Hach nitrogen-nitrate standard solutions, pack of 100 Hach nitrate ionic strength adjustor (ISA) Powder Pillows.

Utilizes a unique solid-state sensor technology that eliminates costly membrane replacements.
Traditional PVC-membrane ISEs require membrane replacement every 2-3 months. The Intellical ISENO3181 Nitrate ISE's unique solid-state sensor technology eliminates the need for frequent membrane replacement by using a solid gel ion exchange behind the ion-selective membrane versus the liquid ion exchange used in most ISEs. This design allows users to get up to 2 years of life from their ISE without membrane replacement – saving the time and costly expense of frequently exchanging membranes.

Requires virtually no maintenance
The solid-state sensor design allows for DRY storage of the ISE without a shelf life. Also, the probe does not require the electrolyte to be refilled or membrane replacement.

Fast, stable, and accurate results
Intellical digital probes lock on the result when the measurement is stable, removing the guesswork in having a moving number. Additionally, the probe's large annular reference junction provides maximum surface area between sample and reference electrolyte for fast measurement stability. And the solid-state sensor design doesn't allow the membrane to flex or undergo surface area changes, leading to more stability in results over a variety of samples.

Ultimate traceability in measurement history
Stored time and date stamp for each measurement, operator and sample ID, calibration history, parameter, and probe serial number

Can be moved between meters without the need to re-calibrate or re-enter measurement settings
Ideal for a multi-user environment with multiple HQD series Laboratory and Portable meters

Specifications

Accuracy:	±0.02 mV or 0.05%, whichever is greater
Cable Length:	1 m
Electrode Type:	Standard
ISA Required:	Nitrate ISA (#2984799)
Junction:	Double Junction (ceramic Porous Pin and annular porous PTFE)
Kit?:	Yes
Length:	175 mm
Method Type:	Laboratory: Non-Refillable Dritek Gel Reference Element
Parameter:	Nitrate
Product Kit:	Model: ISENO3181

	Accessories Included: Calibration Reagents Pack
Range:	0.1 mg/L (7 x 10^{-6} M) - 14 g/L (1 M) NO_3-N
Reference system:	Ag/AgCl
Resolution:	Selectable up to 4 significant digits
Sample Volume:	25 mL
Sensor material:	Epoxy
Sensor Type :	Solid-state PVC membrane
Special Features:	Dry storage & fast response time. No replacement membranes.
Temperature Accuracy:	±0.3 °C
Temperature Range:	0 - 50 °C
Temperature resolution:	0.1 °C
Test requirements:	Parameter Needed: Nitrate
	Minimum Sample Depth (mm): 26
Thermistor :	ATC
Warranty:	6 months
Weight:	0.15 kg
What's included?:	Kit includes Intellical ISENO3181 combination nitrate ISE, 1m cable (no. ISENO318101), Hach Nitrate standard solutions: 500 mL bottles of 1 mg/L (no.204649), 10 mg/L (no.30749) and 100 mg/L (no.194749), a pack of 100 Hach nitrate ionic strength adjustor (ISA) Powder Pillows (no. 2984799), and ISE Basic User Manual.

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