



## Intellical ISENH3181 Ammonia (NH<sub>3</sub>) Ion Selective Electrode (ISE), 1 m cable

**Product #:** ISENH318101  
**AED Price:** Contact Hach  
**Available**

Intellical ISENH3181 is a digital, combination gas-sensing, ammonia ion selective electrode (ISE) with a replaceable membrane module, refillable outer body, a non-refillable gel 3M KCl reference with a double junction porous PTFE annular ring and built-in temperature sensor. The electrode measures ammonia concentration in water samples. A 50 mL bottle of 0,1 M NH<sub>4</sub>Cl Electrode Filling Solution is included with the probe. The laboratory version of this ISE is shockproof with its Epoxy plastic body. The Intellical ISENH3181 probe is available with a 1 or 3 meter cable and is intended for laboratory use. The ISENH3181 is ideal for measuring ammonia concentrations in wastewater, drinking water and general water quality applications.

### **Provides fast, stable, and accurate results**

Refillable outer body, an easy to maintain modular membrane design, and a large annular reference junction for maximum surface area between sample and reference electrolyte provide great measurement stability. Intellical digital probes lock on the result when the measurement is stable, removing the guesswork in having a moving number.

### **Ultimate traceability in measurement history**

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

### **User alerted when re-calibration is needed**

No guesswork needed to provide most reliable and accurate results with each measurement.

### **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

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## Specifications

Accuracy:	±0.02 mV or 0.05%, whichever is greater
Cable length:	1 m
Electrode type:	Non-Refillable Gel Reference Element,  Replaceable membrane
Filling solution:	0.1 M NH <sub>4</sub> Cl  (#4447226)
ISA required:	Ammonia ISA  (#4447169)
Junction:	Double Annular Junction
Kit?:	No
Length:	175 mm
Measuring range:	0.01 mg/L (5 x 10 <sup>-7</sup> M) - 14 g/L (1 M) NH <sub>3</sub> -N
Method Type:	Laboratory: Non-Refillable Gel Reference Element, Replaceable membrane

Parameter:	Ammonia
Product Kit:	Model: ISENH381
	Accessories Included: None
Reference system:	Ag/AgCl
Resolution:	Selectable up to 4 significant digits
Sample depth:	25.4 mm
Sample volume:	15 mL
Sensor material:	Epoxy
Sensor type :	pH Glass with replaceable NH <sub>3</sub> sensitive membrane
Special Features:	Easy-to-replace membrane modules.
Temperature accuracy:	±0.3 °C
Temperature range:	5 - 50 °C
Temperature resolution:	0.1 °C
Test requirements:	Parameter Needed: Ammonia
	Minimum Sample Depth (mm): 26
Thermistor:	Integrated
Warranty:	6 months
Weight:	0.1 kg
What's included?:	Intellical ISENH3181 combination Ammonia ISE, 1 m cable (ISENH318101), 3-pack of replacement Intellical ammonia membrane modules (no. 5812711), a 50 mL bottle of electrode fill solution (no. 4447226), Test certificate, and Basic User Manual.

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## Required Accessories

- Conditioning Solution, ISENH3181, 500 mL (Item 2541249)
- Filling Solution, ISENH3181, 0.1 M NH<sub>4</sub>Cl, 50 mL (Item 4447226)