



**Be Right™**



## **Intellical ISENH3181 Ammonia ( $\text{NH}_3$ ) Ion Selective Electrode (ISE), 3 m cable**

**Product #:**

**ISENH318103**

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 NH4Cl 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:  $\pm 0.02 \text{ mV}$  or 0.05%, whichever is greater

Cable length: 3 m

Electrode type: Non-Refillable Gel Reference Element,

Replaceable membrane

Filling solution: 0.1 M NH4Cl

(#4447226)

ISA required: Ammonia ISA

(#4447169)

Junction: Double Annular Junction

Kit?: No

Length: 175 mm

Measuring range: 0.01 mg/L ( $5 \times 10^{-7} \text{ M}$ ) - 14 g/L (1 M) NH<sub>3</sub>-N

Method Type: Field: Non-Refillable Gel Reference Element, Replaceable membrane

Parameter:	Ammonia
Product Kit:	Model: ISENH381
Reference system:	Accessories Included: None
Resolution:	Ag/AgCl
Sample volume:	Selectable up to 4 significant digits
Sensor material:	15 mL
Sensor type :	Epoxy
Special Features:	pH Glass with replaceable NH <sub>3</sub> sensitive membrane
Temperature accuracy:	Easy-to-replace membrane modules.
Temperature range:	±0.3 °C
Temperature resolution:	5 - 50 °C
Test requirements:	0.1 °C
Thermistor:	Parameter Needed: Ammonia
Warranty:	Minimum Sample Depth (mm): 26
Weight:	Integrated
What's included?:	6 months
	0.15 kg
	Intellical ISENH3181 combination Ammonia ISE, 3 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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## What's included?

Intellical ISENH3181 combination Ammonia ISE, 3 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)