



Be Right™



## Intellical ISENH3181 Ammonia (NH3) 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 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

## Specifications

Accuracy:	±0.02 mV or 0.05%, whichever is greater
Cable length:	1 m
Dimensions (D x L):	12 mm x 175 mm
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
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
Parameter:	Ammonia

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 $\text{NH}_3$ sensitive membrane
Special feature:	Easy-to-replace membrane modules.
Temperature accuracy:	$\pm 0.3$ °C
Temperature range:	5 - 50 °C
Temperature resolution:	0.1 °C
Thermistor:	Integrated
Weight:	0.1 kg

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### **What's in the box?**

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.