



## IntelliCAL™ ISENH4181 Ammonium Ion Selective Electrode (ISE), 3 meter cable

Product #: ISENH418103

IntelliCAL™ ISENH4181 is a digital, combination ammonium ion selective electrode (ISE) with a non-refillable, double junction reference and built-in temperature sensor. The IntelliCAL ISENH4181 probe is available with a 1 or 3 meter cable and is intended for laboratory use. The ISENH4181 is ideal for measuring ammonium concentrations in wastewater, drinking water and general water quality applications. The ISENH4181's solid-state sensor design eliminates membrane replacement and allows for dry storage of the ISE.

### 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 ISENH4181 Ammonium 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.

### 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

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## Specifications

Cable Length:	3 m
Connector:	HQD specific
Diameter:	12 mm
Dimensions (D x L):	12 mm x 220 mm
Filling Solution:	Non-refillable driTEK gel
ISA Required:	2980699
Junction:	Porous PTFE Annular Ring
Length:	220 mm
Material:	Sensor Body: Epoxy
Parameter:	Ammonium
Probe Type:	Standard
Sensor Type:	Solid-state PVC membrane

Special Feature: Dry storage & fast response time. No replacement membranes.

Temperature Range: 0 to 50 °C

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

Includes: IntelliCAL ISENH4181 combination Ammonium ISE with integrated temperature sensor, calibration certificate, and Basic User Manual.

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## **Required Accessories**

- Ammonium Ionic Strength Adjustor (ISA) Powder Pillows, pk/100 (Item 2980699)