

# CONTACTING CONDUCTIVITY SENSORS MODELS 8310, 8311, 8312

## Applications

- Power



## Simple to Integrate. Simple to Operate

An integral part of the most complete water analytics system for the Power industry. Hach provides a broad range of product options designed to work together into flexible solutions to meet your unique needs. Hach's comprehensive approach saves you time on design, installation, training, maintenance, and operation.

### Save time on design

A single design source and one product platform means you spend less time searching for design files or configuring components. Create and reuse your optimal design templates. Each sensor has a unique four-digit cell constant determined according to ISO 7888 and ASTM D 1125 standards.

### Accelerate your installation

One source, interchangeable components, a common user interface, and one support team make installation faster and less complicated. Quickly and easily transfer user settings between conductivity loops.

### Reduce training complexity

A single platform minimizes time required to teach and learn product operations, getting new systems in use faster.

### Simplify maintenance and operation

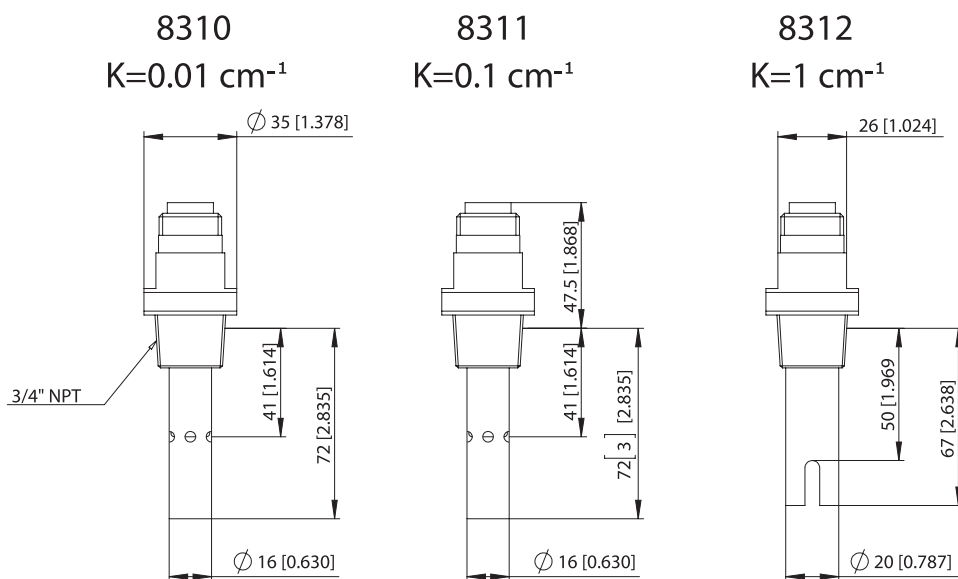
Common menu guides reduce variability and provide step-by-step procedures for maintenance and calibration. Robust construction with 316 Stainless Steel and a sturdy industrial design ensures the product can withstand even the most demanding conditions. Hach's contacting conductivity sensors measure a broad range (pure water 0.057  $\mu\text{S}/\text{cm}$  up to 20,000  $\mu\text{S}/\text{cm}$ ) with high accuracy.

## Specifications\*

Prod. No.	08310=A=0000	08311=A=0000	08312=A=0000
<b>Cell Constant k</b>	0.01 cm <sup>-1</sup>	0.1 cm <sup>-1</sup>	1.0 cm <sup>-1</sup>
<b>Range</b>	0.01 to 200 µS/cm	0.01 to 2000 µS/cm	0.01 to 20000 µS/cm
<b>Operating Temperature Range</b>	Maximum Temperature: 125 °C at 10 bar	Maximum Temperature: 125 °C at 10 bar	Maximum Temperature: 125 °C at 10 bar
<b>Pressure Limit</b>	10 bar at 25 °C	10 bar at 25 °C	10 bar at 25 °C
<b>Material</b>	Black PSU upper body with a 316L Stainless steel electrode	Black PSU upper body with a 316L Stainless steel electrode	Black PSU upper body with a graphite electrode
<b>Temperature Sensor</b>	PT100	PT100	PT100

*\*Subject to change without notice.*

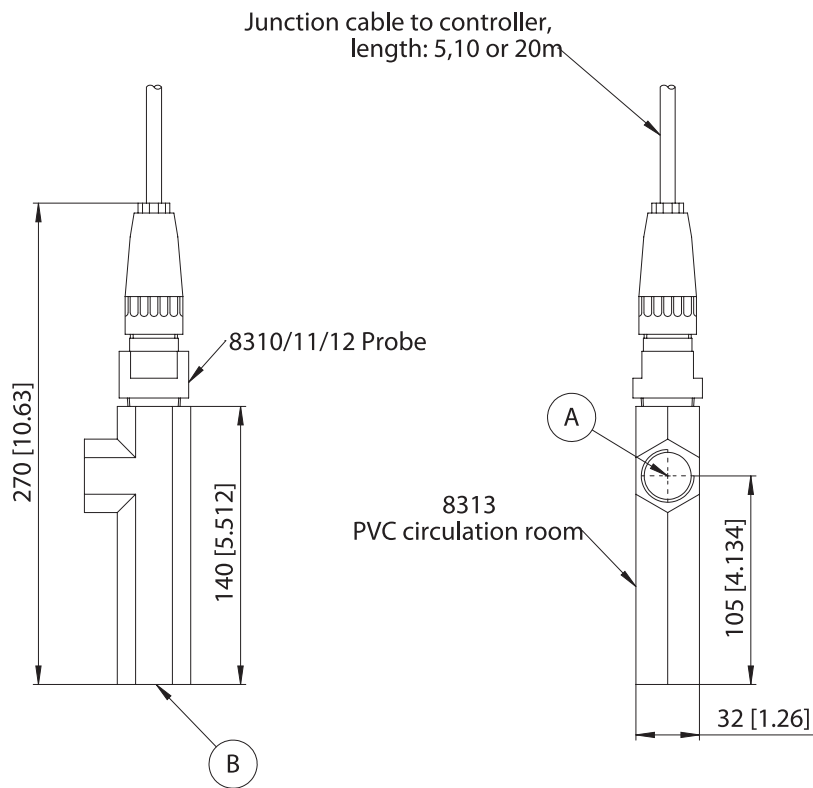
**Dimensions**





**Psu PROBES**

T Max: 125°C (257°F) / P Max: 10 bar (145 psi)

All dimensions are in mm[inches].



- A**  SAMPLE OUTLET: Female NPT 3/4".
- B**  SAMPLE INLET: Female NPT 3/4",  
0° to 60°C (32° to 140°F), P: 10 bars max. (145 psi)

All dimensions are in mm[inches].

## Ordering Information

### Conductivity Electrodes

<b>08310=A=0000</b>	8310 Conductivity Sensor, K= 0.01 cm <sup>-1</sup>
<b>08311=A=0000</b>	8311 Conductivity Sensor, K= 0.1 cm <sup>-1</sup>
<b>08312=A=0000</b>	8312 Conductivity Sensor, K= 1 cm <sup>-1</sup>

### Conductivity Accessories

<b>08313=A=0001</b>	PVC Flow Chamber with 3 X 3/4 FNPT Bores
<b>08319=A=0005</b>	Cable for 831x Conductivity Probes, 5m
<b>08319=A=0010</b>	Cable for 831x Conductivity Probes, 10m
<b>08319=A=0020</b>	Cable for 831x Conductivity Probes, 20m

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LIT2824

G13 Printed in U.S.A.

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