

# Grove - ORP Sensor Kit Pro - IP68 ORP probe, $\pm 2000$ mV range, $\pm 15$ mV accuracy, 5 meters, 0-80°C, Arduino, RoHS certification

Grove - ORP Sensor Kit (HR-O) is a Grove sensor that measures the ORP value, detecting the quality of the liquid. It works with a 5-meter IP 68 ORP probe, offering a -2000 m V to 2000 m V sensing range, operating under 0-80°C, supporting Arduino programming. The sensor is environmentally friendly and RoHS certified.

SKU

110020370

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# Overview



Figure 1. 110020370 Grove Orp Sensor Kit Pro 45Font

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## Key Features

01

### Grove ORP Sensor Upgrade

Assemble 5-meters IP68 ORP probe, offering -2000 mV to 2000 mV sensing range, operating under 0-80°C, member of simple-to-use Grove ecosystem

02

### Enhanced Measurement Performance

Maintain  $\pm 15$  mV sensing accuracy at 0-60°C

03

### Working Voltage

Support both 3.3V and 5V working conditions

04

### Exchangeable Sensor Nodes

Support BNC-linker sensor probes

05

### RoHS Certification

Environmentally friendly, assured detection

# Product Gallery



Figure 1. 110020370 Grove Orp Sensor Kit Pro Front



Figure 2. 110020370 Grove Orp Sensor Kit Pro Back



Figure 3. 110020370 Grove Orp Sensor Kit Pro 45Back

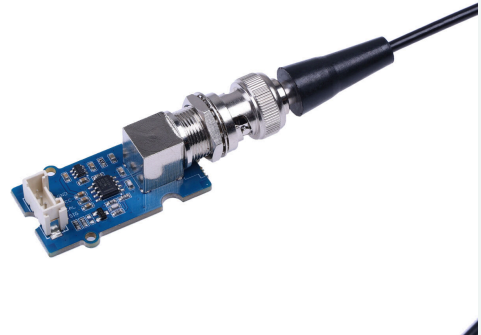


Figure 4. 110020370 Grove Orp Sensor Kit Pro Feature



Figure 5. 110020370 Grove Orp Sensor Kit Pro Feature2

# Specification

## Parameters: Details

Parameters	Details
Range measurement	-2000mV to +2000mV
Resolution ratio	1 mV
Accuracy	$\pm 15$ mV
Aero potential point(pH)	7.00 $\pm$ 0.30
Slope factor	>96%
Work voltage	3.3V/5V
Work temperature	0-80°C
Reference system	
Liquid junction boundary	Polyvinyl tetrachloride
Material of the housing	PPS
Membrane resistance	<500 MQ

# Applications

If you want a module to design your own Long Range sensor, to construct project for water quality detection, or to support any wireless communication applications, Wio-E5 is the premium choice that provides you with an optimal user experience.

# Part List

Driver board	x1
ORP Sensor Probe	x1
Grove cable	x1

# Compliance & Logistics

<b>HSCODE</b>	9026809000
<b>USHSCODE</b>	9026806000
<b>UPC</b>	
<b>EUHSCODE</b>	9013101000
<b>COO</b>	CHINA

Logistics	Value
ECCN	EAR99
HSCODE	9026809000
USHSCODE	9026806000
EUHSCODE	9013101000
COO	CHINA

# Resource Links

- <https://www.seeedstudio.com/Grove-ORP-Sensor-Kit-Pro-p-5570.html>
- [Arduino code for value read](#)

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