

INDUSTRIAL PRODUCT DATASHEET

Grove - Water Level Sensor (10CM) for Arduino

Accurate (± 5 mm), waterproof, corrosion-resistant water level sensor up to 10 cm with Grove connectivity for tank overflow detection and liquid level sensing.

SKU

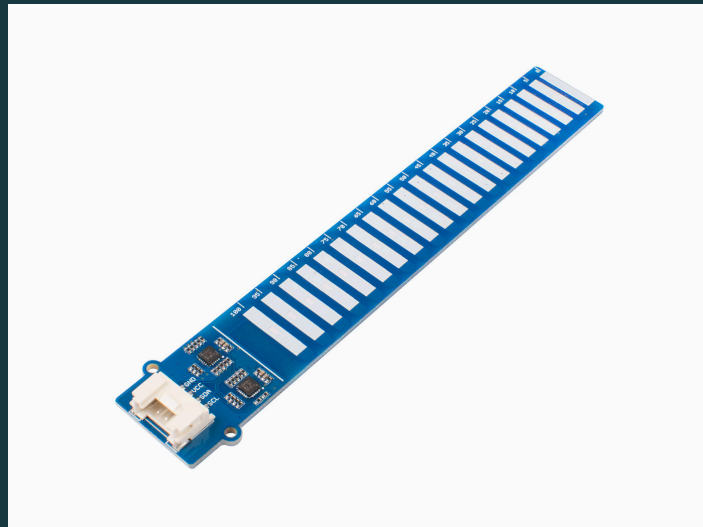
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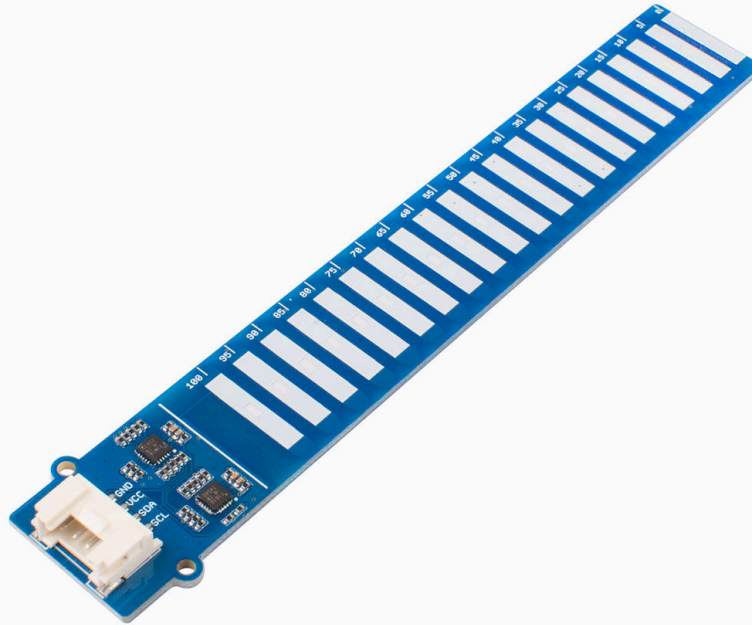
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PRICE

\$7.60(Excl. VAT)



Overview



The Grove - Water Level Sensor (10CM) for Arduino is a waterproof capacitive sensor that measures water levels up to 10 cm with ± 5 mm accuracy and corrosion-resistant materials. It features a Grove unified socket for plug-and-play integration in various applications.

Key Features

The Grove Water Level Sensor is a very accurate sensor that can be helpful in water level sensing applications. It is completely waterproof and uses capacitive pads to detect water levels up to 10cm.

- High measurement accuracy: Since the sensor is based on capacitive sensing, The measurement accuracy is up to ± 5 mm.
- Outstanding corrosion resistance: Inevitably, some liquids may be corrosive during use, and with the help of corrosion-resistant materials, the sensor can be used for a long time.
- Grove unified socket: The sensor ensures "Plug and Play" and could be versatile for various applications.

Description

The Grove Water Level Sensor is a very accurate sensor that can be helpful in water level sensing applications. It is completely waterproof and uses capacitive pads to detect water levels up to 10cm.

We used capacitive pads on the PCB of the module and did conformal coating over the PCB to make the sensor protect against moisture, dust, chemicals and high temperatures. We believe that this technique will allow you to make accurate water level measurements (± 5 mm accuracy) easily

Let's look at the difference between few water level sensing methods.

Note

The blue oil layer on the surface of the module's capacitance sensing area should be kept intact. When the oil layer is damaged and the test object is a conductive liquid, the test data may be abnormal.

Attention

When testing, the highest liquid level inserted should not exceed the white dividing line, otherwise it will cause a short circuit.

Applications

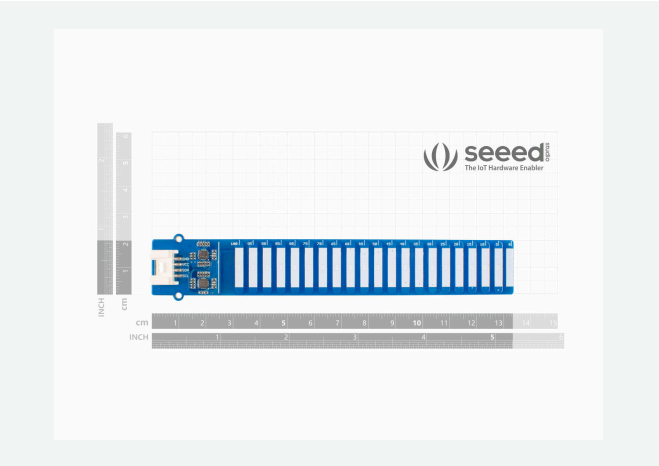
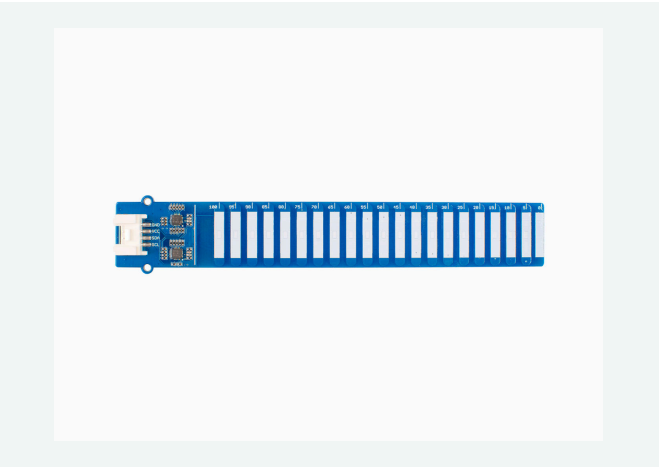
- Tank overflow detection
- Liquid level sensing applications

Specifications

Hardware Overview

Part List

Product Gallery



Specification

Dimensions	20mm x 133mm
Weight	G.W 9.8g
Battery	Exclude
Operating voltage	3.3~5V
Measurement Accuracy	±5mm
Working Temperature Range	-40°C to 105°C
I2C Addresses	0x78 and 0x77
Interface	I2C

Applications

- Tank overflow detection
- Liquid level sensing applications

Part List

Grove - Water Level Sensor (10CM) for Arduino	1
Grove Cable	1

Compliance & Logistics



HSCODE	9026100000
USHSCODE	9026102080
UPC	841454122883
EUHSCODE	9013101000
COO	CHINA

Resource Links

- <https://www.seeedstudio.com/Grove-Water-Level-Sensor-10CM-p-4443.html>
- [Hardware Schematics](#)
- [ATtiny1616 Datasheet](#)

Seeed Technology Co.,Ltd.
9F, Building G3, International E City,
Zhongshanyuan Road, Nanshan, Shenzhen, China

Tel: +86 0755-80695676
Web: www.seeed.cc
Shop: www.seeedstudio.com