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AquaDuo Set B

AquaDuo Set B is a solution that will simplify water quality measurement, and more efficiently can be used in the food, beverage, and agricultural production industries. By monitoring pH (positive potential of the hydrogen ions) and EC (Electrical Conductivity) values from IoT devices through a dashboard on the software platform in real time. and notification system via LINE Notify.



Key Features



Ability

There is a software platform that can monitor the operation of the device in real time, such as measuring pH, electrical conductivity, temperature and relative humidity.



Easy installation and compatibility

The solution has been developed in a plug and play format. allowing easy connection to other devices or sensors, such as in the food, beverage, and agricultural production industries.



Easy to use

User manuals and display screens of the platform software have been prepared to be easy to understand and in Thai language.



Strength and durability

The cabinet material is made of steel. Has a cover and roof for dustproof and waterproof protection.



Customization and flexibility

Supports customization or according to specific requirements such as a Airlar solution, dissolved oxygen sensor, weather station sensor, measure the amount of rain, Chlorine sensor, Nitrate sensor, Phosphorus Sensor, and Potassium sensor.



Data Security

It has an industrial-grade Industrial IoT eSIM (MFF2) chip designed to operate in industrial environments. and can connect to the internet with service provider networks in Thailand It also has an encrypted hardware chip. (CryptoAuthentication) makes data transmission using technology extremely secure and reliable.











Microchip ATECC608A

Micro SD card

USB type C port

ARM Cortex-M 32-bit

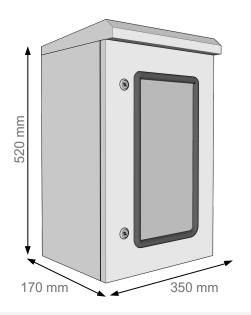
RS485 / RS232

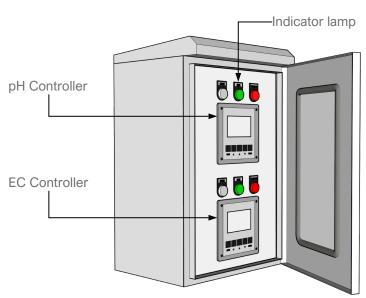
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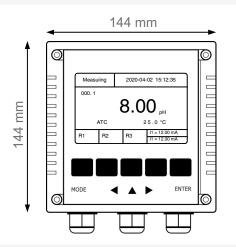
Contact

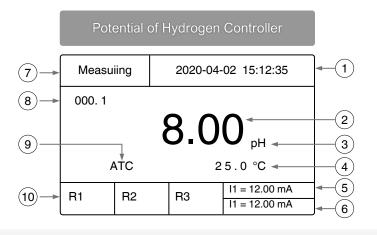
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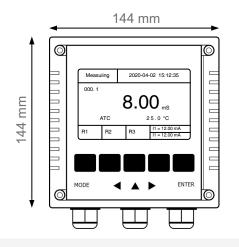
Overview

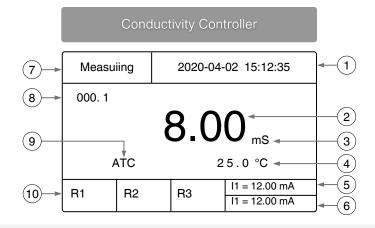












- 1. Date and time
- 2. Main display
- 3. Unit
- 4. Temperature and unit
- 5. First current output

- 6. Second current output
- 7. Measurement status and Error indicator
- 8. Count down timer
- 9. Temp. compensation: auto(ATC) or manual(MTC)
- 10. Relay indicator

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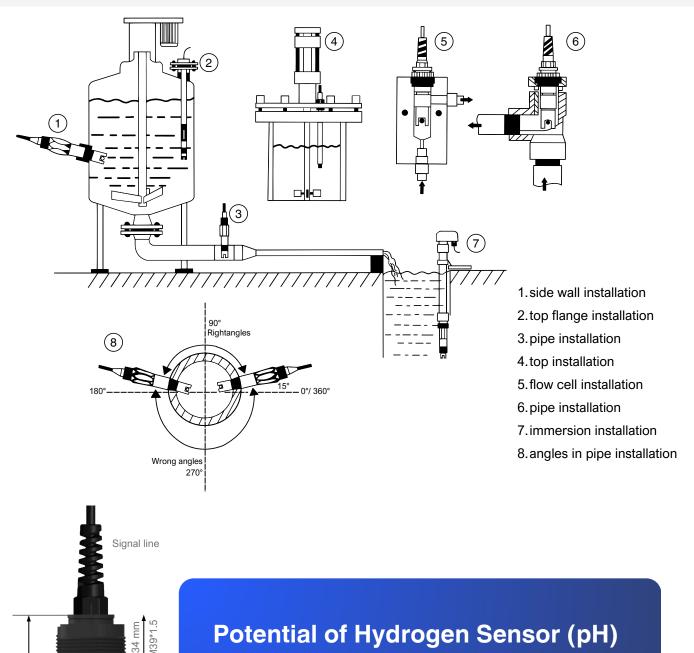
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Overview

107 mm

25 mm

Electrode Installation



Suitable for pH measurement of various substances in medicine, agriculture, wastewater treatment, water quality control in various production processes such as food, beverages, medicine, etc.

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Conductivity Sensor (EC)

Suitable for water conductivity measurement such as water treatment, measuring nutrient concentration in soil solution, checking water quality in aquaculture, controlling drinking water production quality, etc.

Product Description

MCU	ARM Cortex-M 32- bit RISC ARM Processor cores
Interface port	RS485 or RS232 isolation with auto-direction (Software mode selection) RS485 or I2C with auto - direction
Indicator lamp	LED Open LED Run LED Overdue
Power supply	24 Vdc
Display	LCD
USB type C port	Program Upload
Case	Aluminium
pH sensor	Technical data PH range: 0 - 14pH (Resolution: 0.01 pH, Accuracy: ±0.01 pH) PH balance: 7.00 ± 0.25 Temperature range: 0.0 - 60°C (Resolution: 0.1°C Accuracy: ±0.3°C) Temperature compensation: Automatic Output: RS485;4 - 20mA Power supply: DC9-30V(Recommend 12V) Pressure range: 0 - 3bar Shell material: PPS, ABS Liquid junction: PTFE Pipe thread: 3/4, M39* 1.5 Cable length: 5m or customized Protection grade: IP68



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Product Description

pH Controller	 Specifications Measuring range: 0.00 - 20.00/0.00 - 2.00 μS/cm Resolution: 0.01/0.001 μS/cm Accuracy: ±0.01ppm / ±0.001 μS/cm Temp. compensation: -10.0 - 130.0°C Temp. range: -10.0 - 130.0°C Temp. compensation range: -10.0 - 130.0°C Storage temp: -20 - 70°C Display: Back light, dot matrix LCD display Current output accuracy: ±0.05 mA Baud rate: 9600/19200/38400 Relay delay: 0 - 120 seconds Data logging capacity: 500,000 Waterproof grade: IP65
EC sensor	Technical data • Support measuring : Conductivity / TDS / Salinity • Measuring range : 02000μS/cm • Accuracy : <2% • Resolution : ±1 μS/cm • Temp. measure range : 0.0 - 60.0 °C • Temp. compensation : Automatic/Manual • Output signal : RS485;4 - 20mA • Power supply : DC9 - 30 VDC Recommend 24 VDC • Shell material : PPS, ABS • Pipe thread : M39* 1.5, 3/4 • Cable length : 5m or customized • Protection grade : IP68
EC Controller	Specifications • Measuring range : 0.00 - 20.00/0.00 - 2.00 μS/cm • Resolution : 0.01/0.001 μS/cm • Accuracy : ±0.01ppm / ±0.001 μS/cm • Temp. compensation : -10.0 - 130.0°C • Temp. range : -10.0 - 130.0°C • Temp. compensation range : -10.0 - 130.0°C • Storage temp : -20 - 70°C • Display : Back light, dot matrix LCD display • Current output accuracy : ±0.05 mA • Baud rate : 9600/19200/38400 • Relay delay: 0 - 120 seconds • Data logging capacity : 500,000 • Waterproof grade : IP65
Enclosure size	H: 500 x W: 350 x D: 280 mm
Weight	20 kg.