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HighDO (EC)

A system that measures water quality using software platforms and IoT devices.

HighDO is a water quality measurement solution developed with high-quality IoT devices and a real-time software platform for monitoring and analysis. It can also be customized or adapted to specific needs without affecting the existing system.



Key Features



Efficiency

Can measure various values related to water quality such as electrical conductivity, temperature etc.



Customization and flexibility

Support customization or additions according to specific requirements such as Phosphorus sensor, Turbidity Sensor, Biological Oxygen Demand (BOD) Sensor, Chemical Oxygen Demand (COD) Sensor, dissolved oxygen (DO) sensor etc.





Easy installation and compatibility

Adopts Plug and Play principle which makes it easy to integrate with existing systems.



Easy to use

Has a clear information show on display screen and status lights.



Strong and durable

It is an aluminum enclosure with a lid and roof, dustproof, waterproof, and unbreakable.













USB type C port

ARM Cortex-M 32-bit

RS485 / RS232

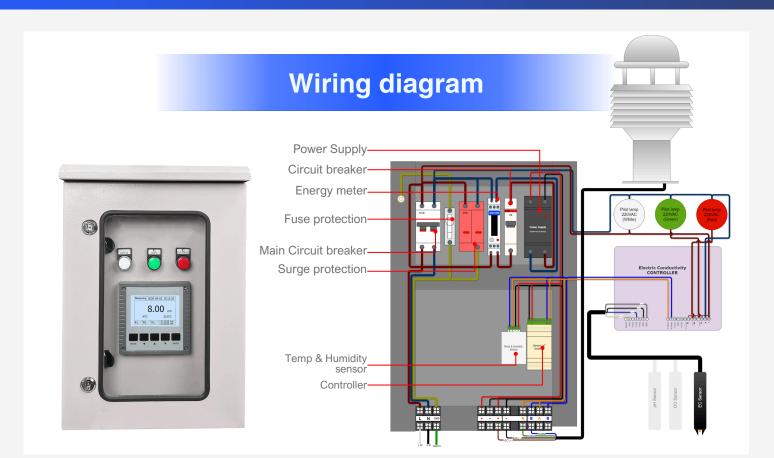
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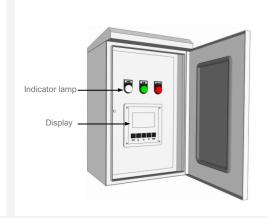
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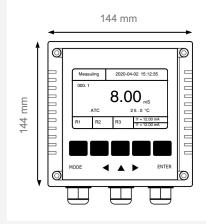


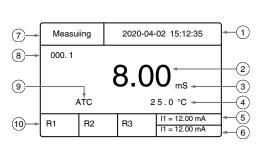












Display

- 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

HighDO Solution
BY SAIJAI TECH

SAIJAI TECH CO., LTD.

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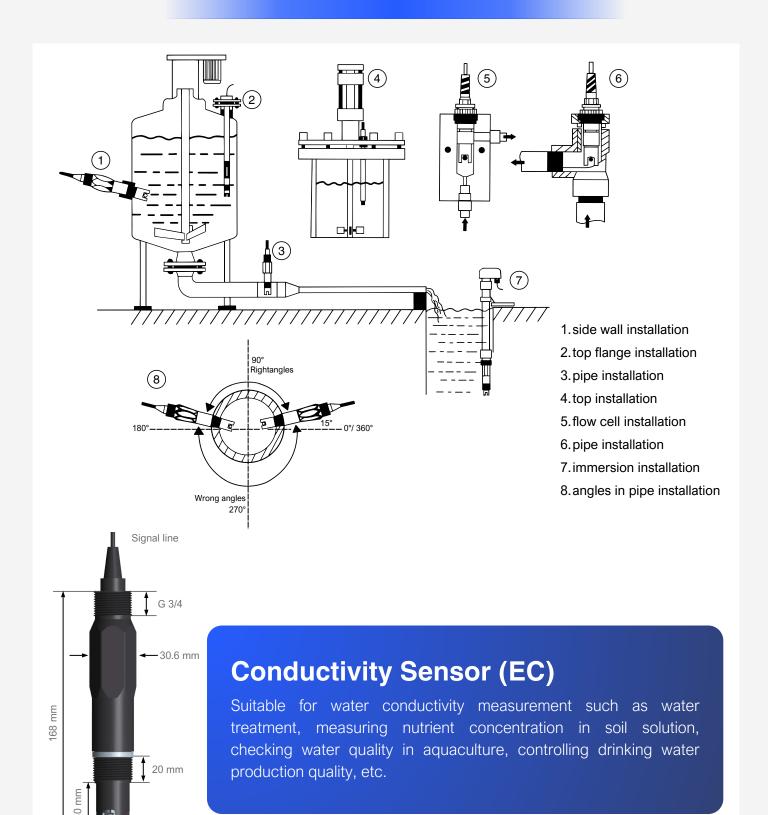




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Overview

Electrode Installation





HighDO Solution BY SAIJAI TECH

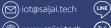
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District, Bangkok 10900

Contact

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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
EC sensor	Technical data • Support measuring: Conductivity / TDS / Salinity • Measuring range: 0 - 2000μS/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 to 20.00/0.00 to 2.00 µS/cm • Resolution: 0.01/0.001 µS/cm • Accuracy: ±0.01ppm / ±0.001 µS/cm • Temp. compensation: -10.0 to +130.0°C • Temp. range: -10.0 to +130.0°C • Temp. compensation range: -10.0 to +130.0°C • Storage temp: -20 to +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
IoT Box Size	H: 500 x W: 350 x D: 280 mm
Weight	18 kg

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USB type C port

ARM Cortex-M 32-bit

RS485 / RS232

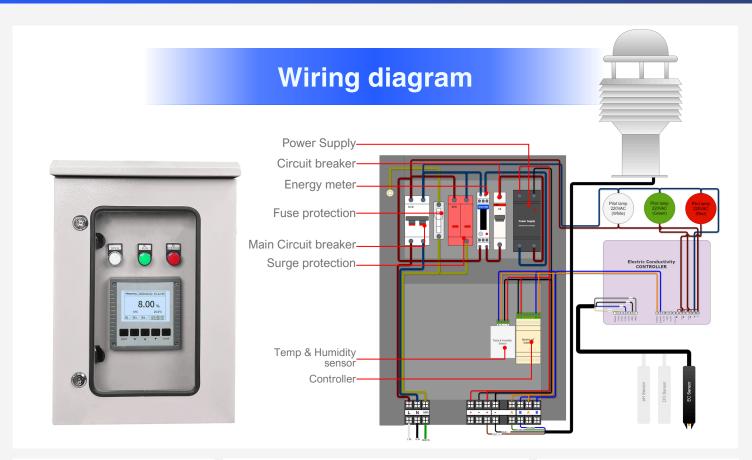
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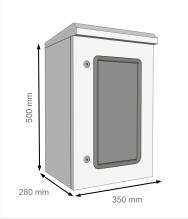
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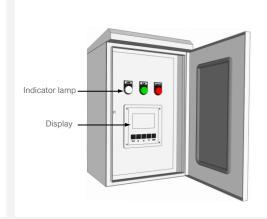
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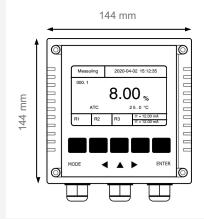
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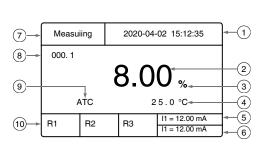












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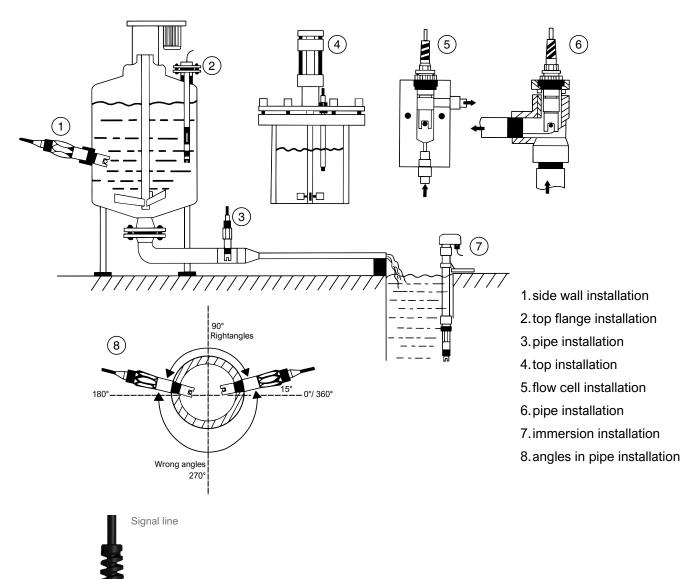
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Overview

Electrode Installation



73 mm 77 mm 73 mm

Dissolved oxygen sensor (DO)

Suitable for work such as checking dissolved oxygen in water, such as aquaculture systems, wastewater treatment, production control such as beer or wine fermentation, controlling the quality of water used in medicine or agriculture, and others.



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Indicator lamp	LED Open LED Run LED Overdue
Power supply	24 Vdc
Display	LCD
USB type C port	Program Upload
Case	Aluminium
Do sensor	 Measuring range: 0.00 - 20.00 mg/L(ppm) Accuracy: +2%FS Temperature range: 0.0 - 60.0°C Temperature sensor: NTC22K Response time: 90% < 90 seconds Medium flow rate: > 0.02 m/s Calibration interval: Once every 1 month Shell material: ABS Pressure range: 0 - 2bar Polarization voltage: 675mV Process connection thread: M39 * 1.5 Cable length: 5m or customize Electrical connection: Pin type or BNC connector Protection grade: IP68
Do Controller	 Measuring range: 0.00 - 400.00 Resolution: 0.1 Accuracy: ± 0.2 Temp. compensation: Pt-1000 / NTC22K Temp. range: -10.0 to + 130.0°C Temp. compensation range: -10.0 to + 130.0°C Sensor current measurement range: -2.0 to + 400 nA Sensor current measurement accuracy: ±0.005 nA Polarrization voltage range: -0.675 V Pressure range: 500 to 9999 mBar Salinity compensation range: 0.00 - 50.00 ppt Ambient temperature range: 0 - 70 °C DO current output1: isolated 4 - 20 mA output, max. load 500 Ω
IoT Box Size	H: 500 x W: 350 x D: 280 mm
Weight	18 kg