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ONLIMO *Treng ginas.*

Pemantauan Kualitas Air Otomatis & Komprehensif

Sistem Pemantauan Kualitas Air Kontinyu
dan Terintegrasi (ONLIMO)

Contact For Information

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One Stop Solution for Procurement Service

REGULASI ONLIMO



MENTERI LINGKUNGAN HIDUP DAN KEHUTANAN
REPUBLIK INDONESIA

PERATURAN MENTERI LINGKUNGAN HIDUP DAN KEHUTANAN

REPUBLIK INDONESIA

NOMOR 2 TAHUN 2022

TENTANG

PETUNJUK OPERASIONAL PENGGUNAAN DANA ALOKASI KHUSUS FISIK

PENUGASAN BIDANG LINGKUNGAN HIDUP DAN BIDANG KEHUTANAN

TAHUN ANGGARAN 2022

**PERATURAN MENTERI LINGKUNGAN HIDUP DAN
KEHUTANAN REPUBLIK INDONESIA NOMOR 2
TAHUN 2022 TENTANG PETUNJUK OPERASIONAL
PENGGUNAAN DANA ALOKASI KHUSUS FISIK
PENUGASAN BIDANG LINGKUNGAN HIDUP DAN
BIDANG KEHUTANAN**



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PEMANTAUAN KUALITAS AIR OTOMATIS & KOMPREHENSIF

Sistem Pemantauan Kualitas Air Kontinyu
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Parameter Kualitas
Air Lengkap



Pengiriman Data
Secara Real-Time



Berbasis IoT dan
Validasi Data

More than data

Pemantauan kualitas air limbah dan sungai secara terus-menerus membutuhkan instrumentasi Water Quality Monitoring System (WQMS) yang sesuai dengan kondisi lingkungan serta selaras dengan regulasi yang berlaku.

Trengginas Onlomo adalah WQMS yang dapat memantau seluruh parameter wajib, yaitu BOD, COD, Temperature, pH, DO, Nitrat, TDS, Turbidity, Amoniak, Depth.

Melalui sistem sensor akurat serta aplikasi pendukung yang handal, Trengginas Onlomo dapat memberikan informasi yang lengkap mengenai kualitas air sungai.



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SPESIFIKASI

BOD & COD

Item	Parameters
Model	DS500
Range	COD 0.15 to 2000 mg/L equiv. KHP BOD/TOC 0.06 to 2000 mg/L equiv KHP
Resolution	0.01 mg/L
Protection Level	IP68
Power Supply	6~12V DC
Sensor Interface	Support RS-485, MODBUS protocol
Maximum Pressure	1 bar
Accuracy	5%
Calibration	1 or 2 Point Calibration
Temp Range	0 ~ 50°C
Housing Material	SS316



PH & TEMPERATURE

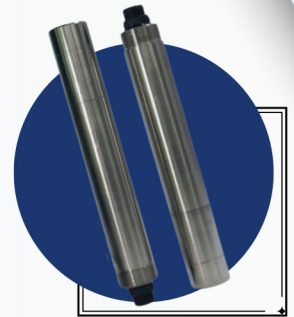
Item	Parameters
Model	DS510
Range	0~14pH
Precision	5%
Resolution	0.01
Protection Level	IP68
Max Operating Pressure	1 bar
Storage Temperature	0~ 60 °C
Temperature Range	0~ 50 °C
Sensor Interface	Support RS-485, MODBUS protocol
Power Information	DC 6~12V, current <50mA
Size	Φ 25 *198 mm
Housing Material	POM



SPESIFIKASI

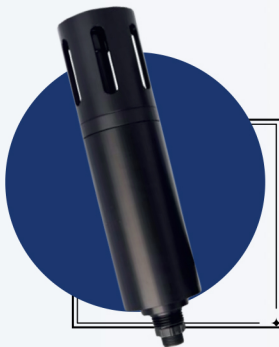
DO

Item	Parameters
Principle	Fluorescence analysis method
Measuring Range	0~20mg/L or 0~200%saturation
Response time	3 sec
Accuracy	3%-5%
Resolution	0.01
Protection Level	IP68
Installation	Submersible
Temp Sensor	NTC
Temp Range	0~50°C
Temp Accuracy	±0.2°C
Output Signal	Support RS-485, MODBUS protocol
Power Supply	DC 6~12V, current <50mA
Dimmension	Φ22*155 mm
Max Working Pressure	1 bar
Housing Material	SS316/Titanium alloy



NITRATE

Item	Parameters
Model	DSX260
Nitrate Range	0~10mg/L, 0~100mg/L, 0~1000mg/L
Nitrate Accuracy	5%
Nitrate Accuracy	0.1 mg/L
Protection Level	IP68
Temperature Range	0 ~ 50°C
Assembly	Input Type
Power Supply	DC 6~12V, current<50mA
Output Signal Digital	RS-485 output, MODBUS protocol
Cable Length	5 meters (default), can be customized
Housing Material	POM
Optional	Potassium, Sodium





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SPESIFIKASI

TSS

Product Name	Online Total Suspended Solids Sensor
Model	DSS450
Principle	135° back light
Range	0.5~4000mg/L
Resolution	0.01mg/L
Precision	<5%
Temperature range	0~ 50°C
Protection level	IP68
Sensor interface	Support RS-485, MODBUS protocol
Assembly	Input type
Power information	DC 6~12V, current <50mA
Size	Φ32*169.5mm
Probe cable length	5 meters (default), can be customized
Optical window	Optical Fiber
Self-cleaning system	Yes



TDS

Product name	Online TDS sensor
Model	DS285
Principle	Four-Electrode method
Range	0~ 60 ppt
Response time	<2 sec
Precision	5%
Resolution	0.01
Output signal	Support RS-485, MODBUS protocol
Protection level	IP68
Maximum pressure	6 bar
Storage temperature	0~ 50 °C
Housing material	SS316,PEEK
Power information	DC 6~12V, Current<50mA
Dimensions	Φ22 X 152.5mm





SPESIFIKASI

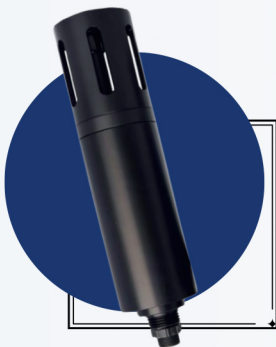
TURBIDITY

Product Name	Fiber optic turbidity sensor
Model	DSS410
Principle	90° scattered light
Range	0 to 4000 NTU
Resolution	0.01 NTU
Precision	<5%
Temperature range	0~ 50°C
Protection level	IP68
Sensor interface	Support RS-485, MODBUS protocol
Assembly	Input type
Power information	DC 6~12V, current <50mA
Size	Φ32*169.5mm
Housing Material	POM
Optical window	Optical Fiber
Self-cleaning system	Yes



AMONIA NITROGEN

Model	DSN260
Amonia Nitrogen Range	0-10mg/L,0-100mg/L,0-1000mg/L
Amonia Nitrogen Precision	3%
Amonia Nitrogen Resolution	0.1 mg/L
pH Range	2-12
pH Accuracy	±0.1
pH Resolution	0.01
Protection Level	IP68
Deepest depth	10 meters underwater
Temperature Range	0 ~ 50 °C
Sensor Interface	Support RS-485, MODBUS protocol
Assembly	Input type
Power Information	DC6~12VDC, current <50mA
Probe Cable Length	5 meters (default), can be customized
Housing Material	POM





SPESIFIKASI

DEPTH

Range	Standard Default 0–5 Meters, up to 500 M H ₂ O (optional)
Output	420mA, 05V, SDI-12, 0.5–4.5V, RS485, mV Signal
Power Supply	730Vdc, 1230Vdc, 12Vdc, 5Vdc±5%, 1030Vdc, 510Vdc
Accuracy	0.15% F.S, 0.25% F.S, 0.5% F.S (optional)
Operating Temperature	–30 °C to +85 °C
Temperature Compensation	–10 °C to 60 °C (adjustable)
Zero Temperature Drift	0.03% FS/°C (≤100kPa); 0.02% FS/°C (>100kPa)
FS Temperature Drift	0.003% FS/°C (≤100kPa); 0.002% FS/°C (>100kPa)
Electrical Connection	Fixed cable, waterproof (IP68)
Response Time	4 to 10 ms; 1 ms (adjustable)
Cable	PE cable with ventilation
Certification	CE, RoHS

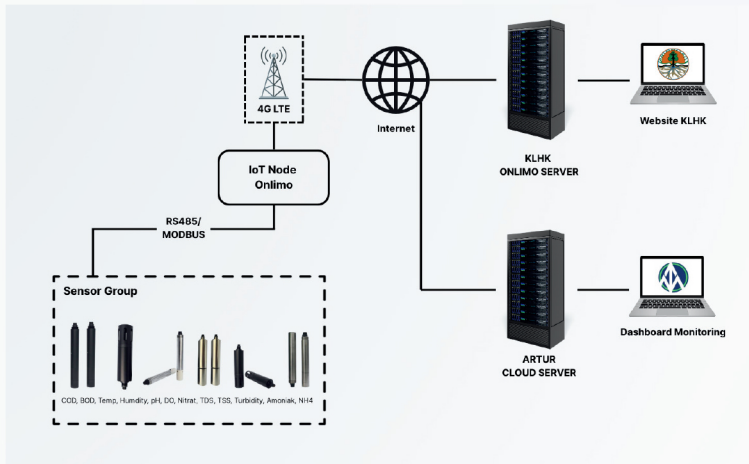


DATA LOGGER

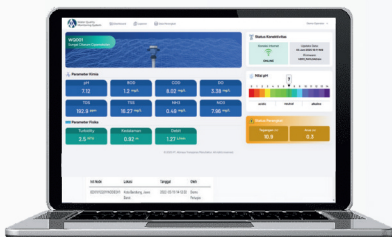
Processor	ARM Cortex-M4, 168 MHz, 192 KB
Storage	SD Card (64 GB)
I/O	8 Input / 8 Output
Communication Interface	RS485, I2C, UART, SPI
Sensor Input	RS485 & 4–20 mA
GPS	NMEA Protocol (ATGM336H)
Internet Communication (LAN)	RMII IEEE 802.3 / 802.3u (10BASE-T / 100BASE-TX)
Power Supply	9–36 VDC



ARSITEKTUR SISTEM ONLIMO TRENGGINAS



WEBSITE



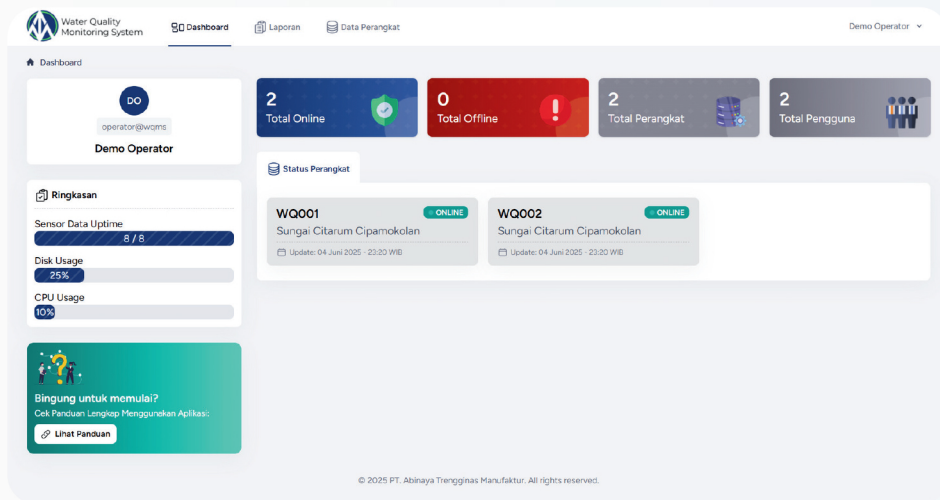
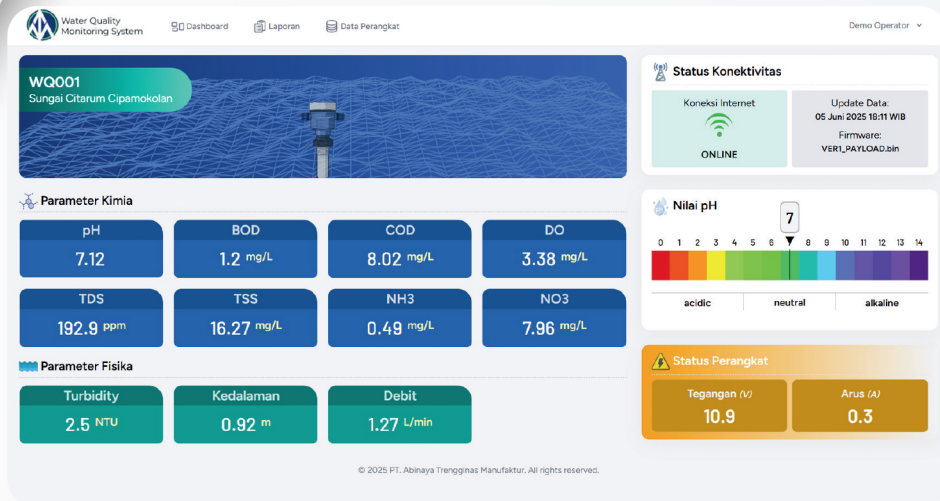
Fitur Website Monitoring ONLIMO

1. Informasi Kualitas Air Sungai
2. Dashboard Monitoring ONLIMO
3. Log Master Data ONLIMO
4. Manajemen Perangkat
5. Data Terintegrasi dengan Website KLH



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DASHBOARD ONLIMO





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IMPLEMENTASI ONLIMO





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