

DO electrodes and accessories

MD 1912 DO double membrane electrode

Feature

- No maintenance disposable dissolved oxygen electrode, easy to use
- Silicone, Teflon reinforced two oxygen permeable membrane, durable, Fast response, Water flow effect is small

Specification

- Test Range: 0...20.00ppm
- Response time: 98%<60s(25℃)
- Residual current<0.5% of air current
- Temperature Sensor: NTC22K
- Polarization voltage: -670±50mV
- Air currents: 40...80nA(25℃)
- Operating temperature: 0~50℃
- Pressure: 0...0.4MPa



MD1900 Optical dissolved oxygen electrode

Feature

- fluorescence principle, needn't to replace the membrane and electrolyte
- Do not consume oxygen, no flow rate and agitation requirements, high accuracy
- Automatic detection feature ensures that the measured value
- No flow requirements, can be measured in still water

Specification

- Range: 0...20mg/l(0...20ppm)0...200%SAT
- Repeatability: +/-0.5%FS
- T90: 60S
- Material: Noumenon: SUS316L stainless steel titanium, Phosphor layer cap: POM, fluorescent layer: Silicon
- Screw connection: G1
- Cable: 80m



CLN03 MD1900 Electrode cleaning device

Feature

- Installation and maintenance easy

Specification

- Installation: by screws
- Size: 120 * Φ65mm



Bracket

PP-100B



PP-100A

TURB-1100 turbidity /suspended solid
/sludge concentration (MLSS) Transmitter

Application area

- Chemical process
- Recycle & cleaner
- Drinking & surface water measurement
- Water & waste water treatment

Features

- 144X144 microprocessor turbidity/suspended solid, MLSS transmitter.
- Waterproof & dustproof proof design, to fit wall/ panel/ pipe installation.
- Automatic sensor clean function with programmable time interval and hysteresis.
- Large LCD display, it can show the operation status and symbols.
- With backlight sensor, automatic and manual backlight setting function.
- 5 points auto. Calibration; single point calibration can be according to lab. or field analysis and adjustable.
- With password and multi-key design/security protection enhancement.
- Stainless steel electrode housing design with scratch resistant lenses.
- Without color, bubbles interfere with built-in automatic cleaning system.
- 90 degree angle optical monitoring principles designed to meet the US EPA and ISO7027.
- Equipped RS-485 MODBUS RTU protocol, it can connect to the digital system directly. (Turb-1100RS serial only)
- Two programmable output (Turb-1100 serial only)

Ordering Guide

Transmitter

- TURB-1100
- TURB-1100D(20-40VDC)
- TURB-1100RS RS-485
- TURB-1100DRS(20-40VDC) RS-485

Standard

- TC-100/500/3000 Japan OPTEX turbidity sensor
- TCS-1000 Japan OPTEX suspended solids sensor
- TCMS-50 Japan OPTEX sludge concentration sensor
- Bracket



Parameters

Turbidity	NTU,FTU,FNU
Suspended solids	ppm,mg/l
MLSS	g/l
range	Depending on the electrode
Resolution	AUTO(0.01,0.1,1)
Hi/Lo Relay Output	
2 sets Hi/Lo programmable,N/OFF, 240VAC/ 0.5A Max	
Analog Output	
1 or 2 sets of programmable & isolate current DC 0/4-20mA with programable according to Turb./SS/MLSS.	
Wash Relay Output	
ON: 0...9999sec. / OFF: 0...999.9hours	

Specifications

AC supply	100V-240VAC±10%,50/60Hz
DC supply	20-40VDC
Temp	0...50℃
Dimensions	144mm×144mm×115mm(H×W×D)
Protection	Correspond to IP65(NEMA 4)
Installation	Wall/panel/pipe mounting
Cut off Dimensions	138mm×138mm (H×W)
Weight	0.8Kg

TURB-1200 Turbidity Transmitter

Application

- Drinking & surface water measurement
- Water & waste water treatment
- Chemical process
- Recycle & cleaner

Characteristic

- 144X144 microprocessor Turbidity Transmitter
- Waterproof & dustproof proof design, to fit wall/panel / pipe installation.
- Automatic sensor clean function with programable time interval and hysteresis.
- Large LCD display, it can show the operation status and symbols.
- With backlight sensor, automatic and manual backlight setting function
- 5 points auto. Calibration; single point calibration can be according to lab. or field analysis and adjustable.
- With password and multi-key design, security protection enhancement.
- 90 degree angle optical monitoring principles designed to meet the US EPA and ISO7027.
- Equipped RS-485 MODBUS RTU protocol, it can connect to the digital system directly.(Turb-1200RS serial only)
- Two programmable output(Turb-1200 serial only)

Ordering Guide

Transmitter

- TURB-1200
- TURB-1200D(20-40VDC)
- TURB-1200RS RS-485
- TURB-1200DRS(20-40VDC) RS-485

Standard

- MTU-100/MTU-500/MTU-5000Turbidity Sensor
- Pipe Flange mounting



Technical Parameters

Turbidity unit	NTU,FTU,FNU
Range	Depending on the electrode
Resolution	AUTO(0.01,0.1,1)
Hi/Lo Relay Output	2 sets Hi/Lo programmable,N/OFF, 240VAC/ 0.5A Max
Analog Output	1 or 2 sets of programmable & isolate current DC 0/4~20mA with programable according to Turb./SS/MLSS.
Wash Relay Output	ON: 0...9999sec. / OFF: 0...999.9hours

Basic Parameters

AC supply	100V-240VAC±10%,50/60Hz
DC supply	20-40VDC
Temp	0...50℃
Dimensions	144mm×144mm×115mm(H×W×D)
Protection	Correspond to IP65(NEMA 4)
Installation	Wall/ panel/ pipe mounting
Cut off Dimensions	138mm×138mm (H×W)
Weight	0.8Kg

Principle

The incandescent light emitted from the sensor light source component is down into the turbidity meter, and the suspended particles in the sample are encountered to produce scattered light. The sensor is able to detect the scattered light in the water sample at a 90 degree angle to the incident beam.

TURB-1300 Suspended solids / sludge concentration Transmitter



Principle

There is a built-in LED light source in transmitter, it can emit near-infrared light of 880nm which beam scattered by suspended particles. The detector detects scattered light at a 90 degree with incident light to calculate sample's turbidity. The detector detect scattered light at a 140 degree with incident light to calculate sample's MLSS. It doesn't affect the measurement result if sample is colorful.

Parameters

Suspended solids	ppm,mg/l
MLSS	g/l
Range	Depending on the electrode
Resolution	AUTO(0.001,0.01,0.1,1)
Hi/Lo Relay Output	2 sets Hi/Lo programmable,N/OFF, 240VAC/ 0.5A Max
Analog Output	1 or 2 sets of programmable & isolate current DC 0/4-20mA with programable according to SS/MLSS.
Wash Relay Output	ON: 0...9999sec. / OFF: 0...999.9hours

Ordering Guide

Transmitter

- TURB-1300
- TURB-1300D(20-40VDC)
- TURB-1300RS RS-485
- TURB-1300DRS(20-40VDC) RS-485

Standard

- MLSS-2000 / MLSS-120 sensor suspended solids / sludge concentration sensor
- PP-100B immersion bracket (Molded electrode)
- Pipe Flange mounting

Application area

- Chemical process
- Recovery and detergents
- Drinking & surface water measurement
- Water & waste water treatment

Features

- 144X144 microprocessor turbidity/suspended solid/MLSS transmitter.
- Waterproof & dustproof proof design, to fit wall / panel / pipe installation.
- Automatic sensor clean function with programable time interval and hysteresis.
- Large LCD display, it can show the operation status and symbols.
- With backlight sensor, automatic and manual backlight setting function
- Single-point calibration can be adjusted according to the laboratory or on-site analysis
- With password and multi-key design, security protection enhancement.
- Equipped RS-485 MODBUS RTU protocol, it can connect to the digital system directly. (Turb-1300RS serial only)
- Two programmable output(Turb-1300 serialonly)

Specifications

AC supply	100V...240VAC±10%,50/60Hz
DC supply	20...40VDC
Temp	0...50℃
Dimensions	144mm×144mm×115mm(H×W×D)
Protection	Correspond to IP65(NEMA 4)
Installation	Wall / panel / pipe mounting
Cut off Dimensions	138mm×138mm (H×W)
Weight	0.8Kg

TURB-1210 Low Turbidity Transmitter

Application area

- ♦ Tap water ♦ water filtration ♦ Water quality
- ♦ drinking and surface monitoring

Features

- ♦ 144*144 Low turbidity controller designed by Microcomputer
- ♦ Waterproof & dustproof proof design, to fit wall/ panel/ pipein stallation.
- ♦ Automatic sensor clean function with programable time interval and hysteresis.
- ♦ Large LCD display, it can show the operation statusand symbols.
- ♦ With backlight sensor, automatic and manualbacklight setting function
- ♦ 5 points auto. Calibration; single point calibrationcan be according to lab. or field analysis and adjustable.
- ♦ With password and multi-key design,security protection enhancement.
- ♦ 90 degree angle optical monitoring principles designed to meet the US EPA and ISO7027.
- ♦ Equipped RS-485 MODBUS RTU protocol, it can connect to the digital system directly(Turb-1210RS serial only)
- ♦ Two programmable output(Turb-1210 serialonly)

Ordering Guide

Transmitter

- ♦ TURB-1210
 - ♦ TURB-1210D(20-40VDC)
 - ♦ TURB-1210RS RS-485
 - ♦ TURB-1210DRS(20-40VDC) RS-485
- #### Standard
- ♦ MTU-20S/MTU-200S low turbidity sensor



Parameters

Turbidity unit	NTU,FTU,FNU
measuring range	0...20.000/0...200.00
Resolution	AUTO (0.001,0.01,0.1,1)
Hi/Lo Relay Output	2 sets Hi/Lo programmable,N/OFF, 240VAC/ 0.5A Max
Analog Output	1 or 2 sets of programmable & isolate current DC 0/4-20mA with programable according toTurb.
Wash Relay Output	ON: 0...9999sec. / OFF: 0...999.9hours

Specifications

AC supply	100V-240VAC±10%,50/60Hz
DC supply	20-40VDC
Temp	0...50℃
Dimensions	144mm×144mm×115mm(H×W×D)
Protection	Correspond to IP65(NEMA 4)
Installation	Wall/ panel/ pipe mounting
Cut off Dimensions	138mm×138mm (H×W)
Weight	0.8Kg

Turbidity sensor and accessories

TC-100 /500/3000Japan TC-100 turbidity sensor
TCS-1000 Japan OPTEX suspended matter (SS) sensor

Feature

- ♦ Design principles using 860nm infrared light principle,Cameo glass high-precision optical window,Built-in self-cleaning procedures to ensure measurement accuracy

Specification

- ♦ Range: 0...100/500/3000NTU 0...1000mg/l
- ♦ Diameter: 32mm*170mm
- ♦ Cleaning interval: The preset is 10min
- ♦ Accuracy: Of full scale ± 3%
- ♦ Cleaning System: After the automatic cleaning electrode
- ♦ Material: SUS 316L



TS-MxS-A Japan OPTEX MLSS MLSS sensor

Feature

- ♦ Regular automatic wiper cleaning
- ♦ Design principles using 860nm infrared light principle,Cameo glass high-precision optical window,Built-in self-cleaning procedures to ensure measurement accuracy

Specification

- ♦ Range: 0...50g/l
- ♦ Diameter: 48mm*133mm
- ♦ Cleaning interval: The preset is 10min
- ♦ Accuracy: Of full scale ± 3%
- ♦ Cleaning System: After the automatic cleaning electrode
- ♦ Material: SUS 316L



MTU 100/500/5000 Turbidity (MTU) sensor

Feature

- ♦ Optional cleaning brush with automatic cleaning, greatly reducing the amount of sensor maintenance

Specification

- ♦ Range: 5...100/500/5000NTU
- ♦ Diameter: 32mm*170mm
- ♦ Cleaning interval: 1min/5min/15min /30min/1hr/ 4hr/12hr/1day/3day/7day
- ♦ Accuracy: Less than the value of the reading of 5%
- ♦ Cleaning System: Automatic cleaning
- ♦ Material: SUS 316L Viton rubber,PVC(Ti)



MLSS-120 sludge concentration (MLSS) sensor
MSS-2000 suspended solids (SS) sensor

Feature

- ♦ Digital sensor with strong anti-interference ability, transmission distance

Specification

- ♦ Range: 0...120g/l_(MLSS-120) 0~20,000ppm_(MSS-2000)
- ♦ Diameter: 32mm*170mm
- ♦ Cleaning interval: 1min/5min/15min/30min/ 1hr/4hr/12hr/1day/3day/7day
- ♦ Accuracy: Less than the value of the reading of 5%
- ♦ Cleaning System: Automatic cleaning
- ♦ Material: SUS 316L Viton rubber,PVC(Ti)



MTU-20S/MTU-200S low turbidity sensor

Feature

- ♦ Using the current international advanced 90° scattered light measuring principle.
- ♦ Turbidity sensor with a unique design and advanced regulator degassing technology, high sensitivity.

Specification

- ♦ Range: 0...20.000NTU 0...200.000NTU
- ♦ Diameter: 48mm*133mm Material: ABS
- ♦ Accuracy: <1%FS
- ♦ Signal line length: Standard 400cm
- ♦ Operating temperature: 0...40℃
- ♦ Water flow: 400...100ml/min
- ♦ Response time: Immediate response (Initial 2 min)



MTU-100S/MTU-1000S low turbidity sensor

Feature

- ♦ Operation and maintenance is simple and easy to install
- ♦ Long life with light emitting diode as light source measurement

Specification

- ♦ Range: 0...100NTU 0...1000NTU
- ♦ Diameter: 0.001...0.1/0.01...1
- ♦ Principle: Turbidity method
- ♦ light source: High brightness LED
- ♦ Temperature: 0...40℃
- ♦ pressure: 70...135KPa
- ♦ Water flow: 250...750 mL/min

