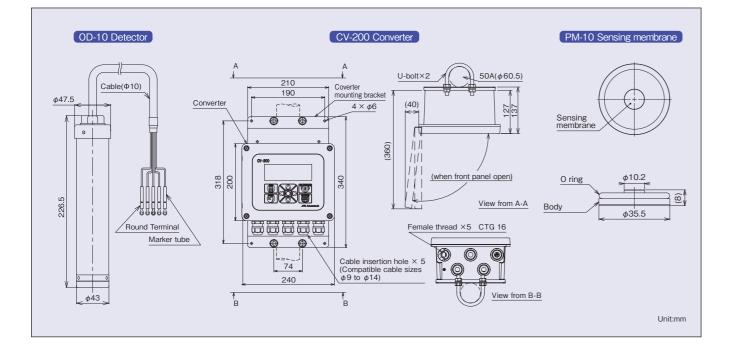
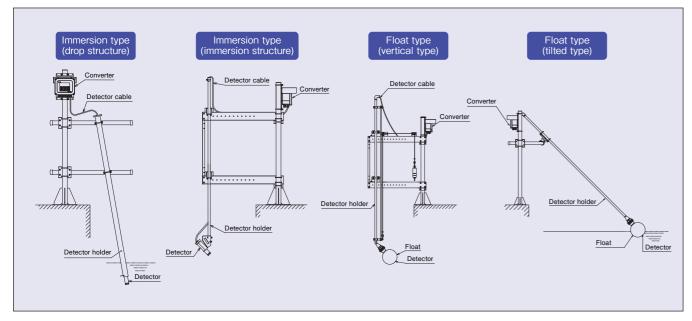
External Dimensions



Detector holder



We will respond upon request. The cleaning mechanism can be selected air cleaning, water cleaning, and air-water mixed cleaning.

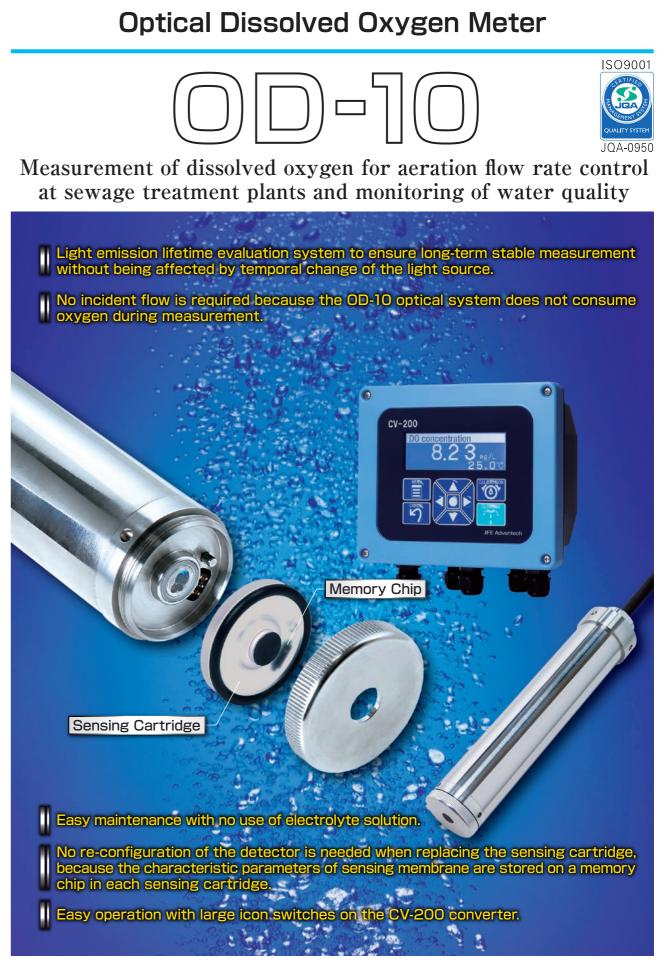
*Specifications in this catalog are subject to change without prior notice due to product impr



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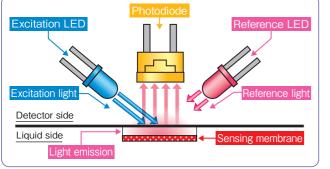


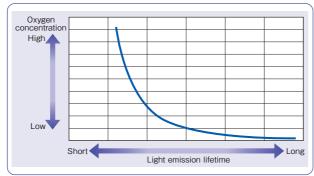
JFE Advantech Co., Ltd.

Features

- Light emission lifetime evaluation system to ensure long-term stable measurement without being affected by temporal change of the light source.
- No incident flow is required because the OD-10 optical system does not consume oxygen during measurement.
- Easy maintenance with no use of electrolyte solution.
- No re-configuration of the detector is needed when replacing the sensing cartridge, because the characteristic parameters of sensing membrane are stored on a memory chip in each sensing cartridge.
- Easy operation with large icon switches on the CV-200 converter.

Measuring Principle



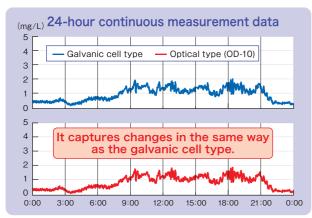


The sensing membrane emits light by returning to the ground state after the sensing material is excited by the excitation light. The light-emission depends on the oxygen concentration around the sensing membrane. The long-term stable measurement can be conducted by use of the reference light which gives standard light-emission.

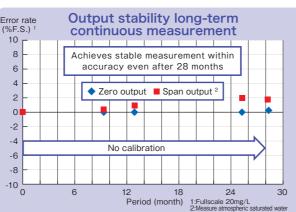
The lower the oxygen concentration around the sensing membrane, the longer the light emission lifetime, and vice versa. Thus the OD-10 evaluates the light emission lifetime which is correlated to the oxygen concentration.

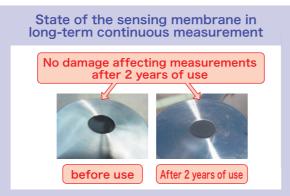
Examples

Installation site : Sewage treatment plant reaction tank Control value of DO : 1.5mg/L









Specifications

OD-10 Detector

Neasurem	ent system	Optical (Light emission time measurement method)		
leasuring ange	Dissplved oxygen concentration	0 to 20.00 mg/L ,0 to 20.00ppm		
	O2 Saturation	0 to 200.0%		
	Water temperature	0 to 50.0°C		
leasuring ccuracy	Reproduibility ¹	±2%F.S.		
	Repeatability	±0.5%F.S.		
00% response time ²		<30sec		
-low speed		Not required		
Neasuring accuracy water temperature)		±0.2°C		
Calibration nethod	Zero calibration	Calibration using zero water ³		
	Span calibration	Atmospheric calibration, Saturated water calibration, Comparative calibration ⁴		
perating temperature range		0 to 50°C (No freezing allowed)		
Vater pressure resistance		1MPa		
Material		SUS316		
Veight		Approx. 2.4kg(including sensing membrane,10m cable) ⁵		
Optional		The following options are available separately, please contact us for any details. • Detector holder • Cleaning mechanism		

1:Output reproducibility after 24 hours when atmospheric saturated water is measured 2:When zero water is measured from atmospheric saturated water.(water temperature 25°C) 3:Uses 5% aqueous sodium sulfite solution 4:Function to match the analyzed value

5:Maximum cable length is 100m.

CV-200 Converter

Mounting method ¹	Mount to a pole or on a wall				
Vaterial	Casing	Aluminum die cast(ADC12)	Panel	Aluminum die cast (ADC12)	
Color	Casing	Munsell N4 equivalent	Panel	Munsel 5PB6/8 equivalent	
Weight	Approx.3.0kg (converter main unit only)				
Power supply	90 to 264VAC, 50/60Hz				
Power consumption ²	Approx. 7W				
Analog output	DC 4 to 20mA				
Allowable load resistance	Ω008				
Contact input ³	Photocoupler insulation input (built-in Power supply:24VDC,5mA)			,5mA)	
Cleaning output	Control output (cleaning) a contact (contact rating:240VAC,1A) Control output (AC OUT) AC voltage output ⁴ (Allowable load 200VA or less)				
Self-diagnosis function ⁵	Wating for measurement after turning on the power, No membrane attached, Membrane replacement time, Abnormal water temperature:LCD display Detector failure,converter memory,error,Detector/convert- er intercommunication error : LCD display, failure output				
Alarm signal output	a contact (2 points,contact rating:240VAC,1A) ALM1:Level alarm ALM2:Selection of level alarm and membrane replacement timing alarm				
Failure signal output	c contact (contact rating:240VAC,1A)				
Display	Dot matrix LCD (with backlight)				
tale to to a	Built-in lightning protection circuit				
Lightning protection	Power supply section	±10kV (1.2/50μs)	Current output section	± 10 kV (1.2/50 μ s) ± 5 k Λ (8/20 μ s)	
Operating temperature range	-10 to	-10 to 55°C			
Protection level	IP66				
Optional	The following options are available separately, please contact us for any details. •Converter stand •Sunshade cover				
Converter mounting bracket are provided with the product. Converter stand converte					

1:Converter mounting bracket are provided with the product. Converter stand , converter mounting bracket and 50A pole mounting U-bolts are sold separately.

2:Excludes the power consumption of the load connected to the control output.

3:Measurement hold, cleaning output control function. 4:The AC voltage output to the control output for cleaning the detector is equal to the power

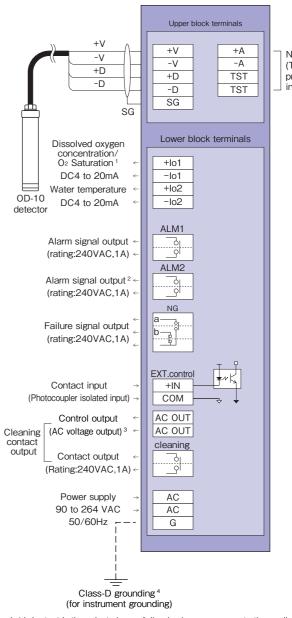
supply voltage.

5:For details,see the instruction manual.

PM-10 Sensing membrane

Characteristic data setting		Automatic setting at the time of replacement 1		
Estimated usable life ²		2 years or more		
Material	Body	Acrylic resin (PMMA)		
Material	Oring	NBR		
Weight		Approx. 5g		
1. Million realised the detector was and open calibration weak are required				

 When replacing the detector, zero and span calibration work are required.
It is a numerical value based on our standard usage record. Regular calibration and maintenance are required for stable measurement. Device wiring diagram



CV-200 converter

Not to be Used (Terminals for pre-shipment inspection only)

 $1{:}\pm 1010$ utput is the selected one of dissolved oxygen concentration or dissolved oxygen saturation.

2:ALM2 output is the selected one of level alarm or membrane replacement timing alarm.

3:The AC voltage output to the control output for cleaning the detector is equal to the power supply voltage. Therefore, do not short-circuit the terminals as it may cause equipment failure.

4:Be sure to connect the grounding terminal(G) to ground potential.

(Class D grounding : ground resistance of $100\,\Omega$ or less.)