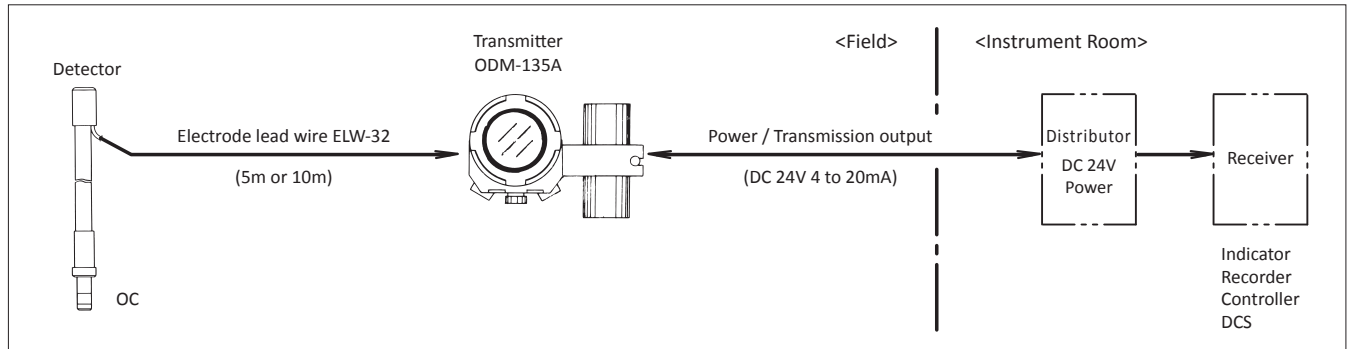
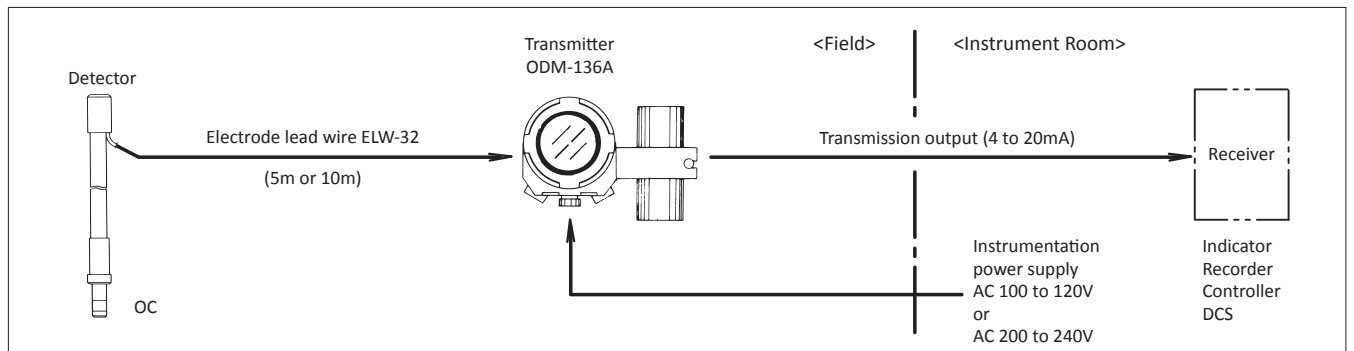


DISSOLVED OXYGEN METER SYSTEM CONFIGURATION

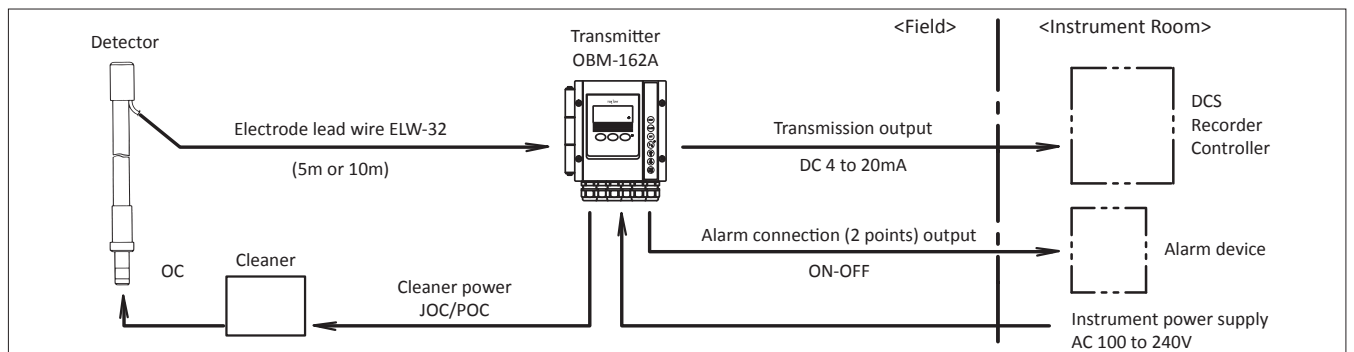
(1) Field installation 2-wire system for wastewater, sewage and night soil treatment



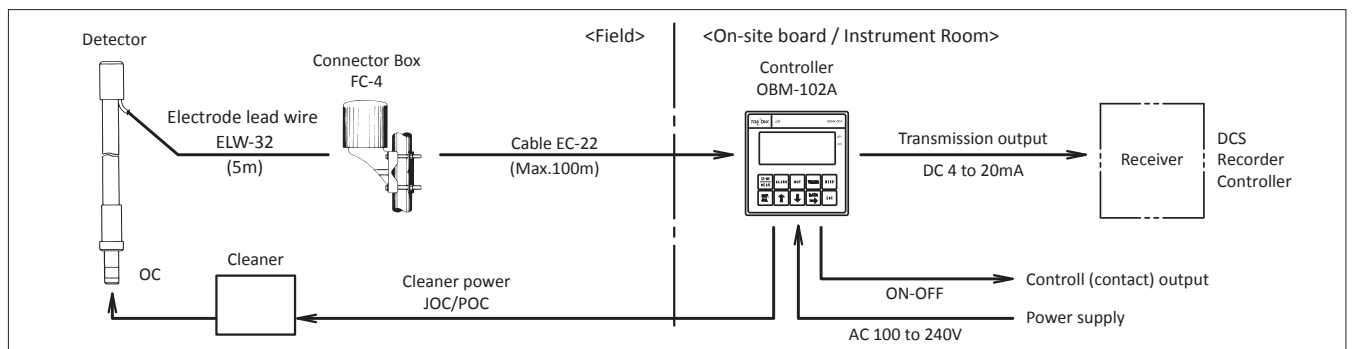
(2) Field installation 4-wire system for wastewater, sewage and night soil treatment (single function)



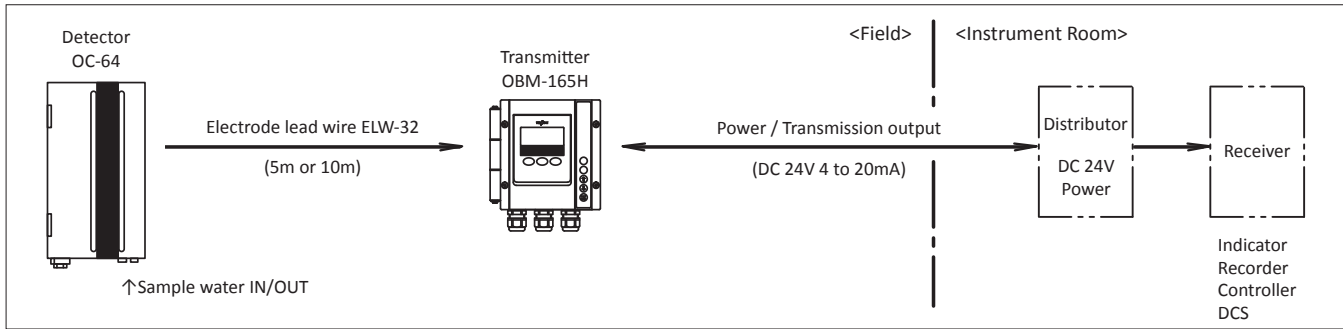
(3) On-site installation 4-wire system for wastewater, sewage, and night soil treatment (multi-function)



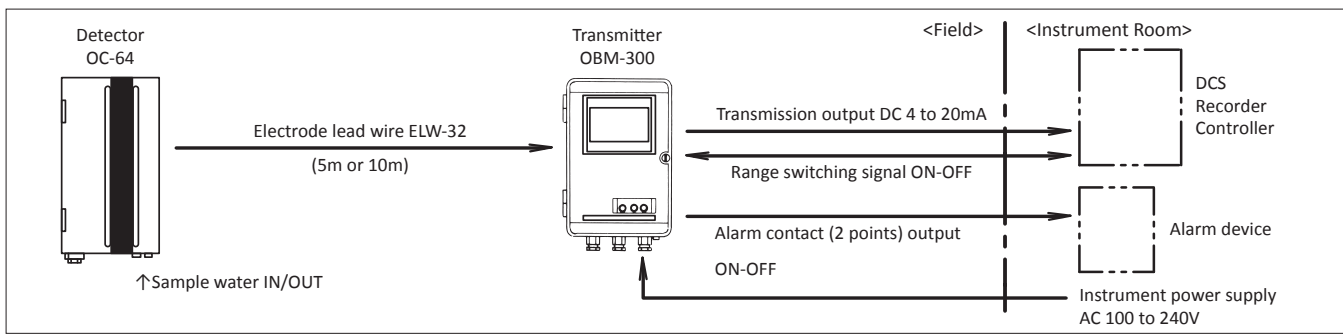
(4) Panel mounting type for waste water, sewage and night soil treatment



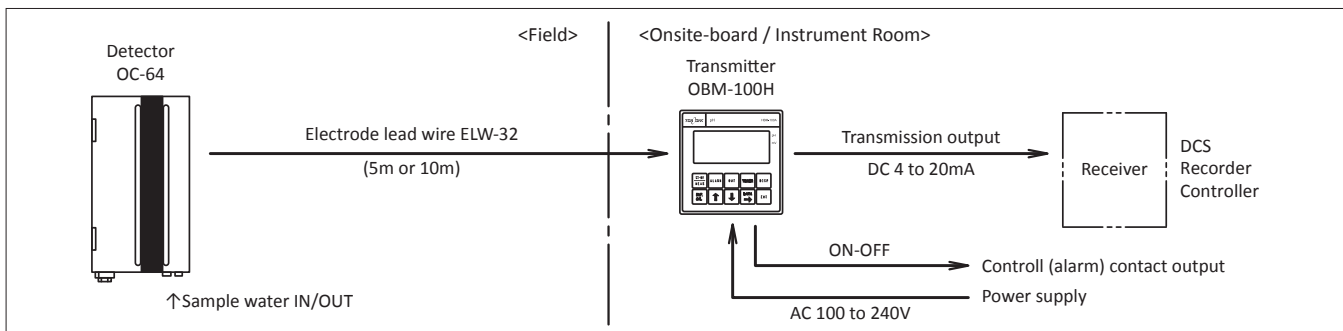
(5) Field installation 2-wire system for low concentrations (boilers, semiconductors)



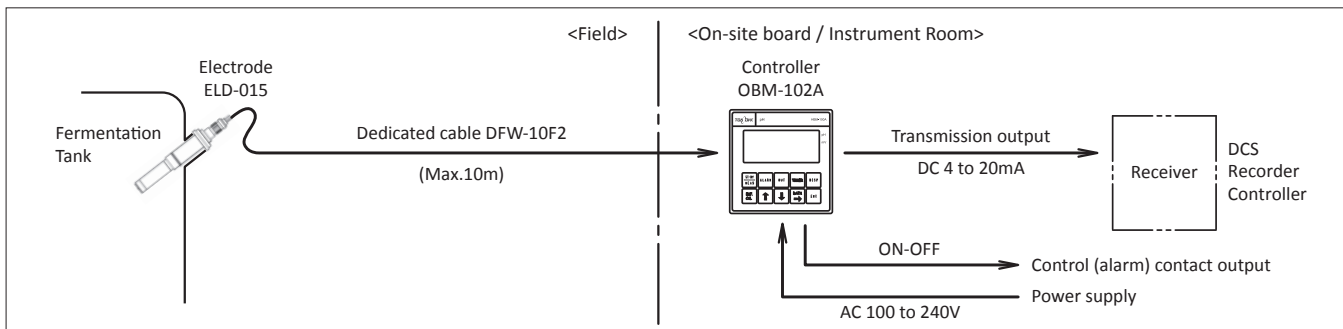
(6) Field installation 4-wire system for low concentrations (boilers, semiconductors)



(7) Panel mounting type for low concentrations (boilers, semiconductors)



(8) Fermentation panel-mounted



■ Industrial Dissolved Oxygen Meter System Configuration

System for sewage/human waste treatment (wastewater treatment)

Category	Transmitter	Electrode holder/ Cleaner	Electrode	Lead wire	Mounting bracket
4 wire system Single function Multi-functional Auto range (AC free power supply)	ODM-136A OBM-162A OBM-336	• Immersion type: OC-711 • Drop type: OC-950/911 • Immersion type with water jet cleaning: JOC-711C • Drop-in type: JOC-950C • Immersion type with pulse air jet cleaning: POC-7D (Drop-in type: POC-95D)	7533L Human waste: 7536L	ELW-32	For OC-711: ZC-2 or ZN-7 + ZC-1 or ZFL-3/4 For JOC-711C: ZC-1 or ZFK-1/2 No other required
Panel type (AC free power supply)	OBM-102A	• Flow-through type: NOC-814/815			
2 wire system (DC24V power supply)	ODM-135A OBM-167H	• Float type: FOC-711/712	7546L	ELW-32	Not required

Fermentation (bioprocess) system

Category	Transmitter	Electrode (Polar type)	Lead wire	Electrode holder
4 wire system On-site installation type Panel type (AC free power supply)	OBM-162A OBM-102A	• Mini jar insertion type (φ12) ELD-011 ELD-012 ELD-013	DFW-0□F2	Not required
		• Tank side mounting ELD-015 (φ24.5)	DFW-0□F2	Not required
		• Detachable type attached to the side of the tank ELD-029 (φ12)	ELW-063	HC-R80

System for low concentration (boiler, semiconductor)

Category	Transmitter	Boiler water detector	Ultra-pure water detector for semiconductor plants
4 wire system Single function Auto range (AC free power supply)	ODM-110A OBM-300	Micro flow cell: OC-64 Combination electrode: For thermal power plants (made of PP) 7561L	Micro flow cell: OC-64 Combination electrode: 7563L (PP) or 7564L (SUS316)
Panel type (AC free power supply)	OBM-100H	For nuclear power plants (made of SUS316) 7562L	
2 wire system (DC24V power supply)	OBM-165H	Combination lead wire: ELW-32	Combination lead wire: ELW-32

<Precautions>

1. Refer to this table and select the correct combined system according to the application.
2. Connector box FC-4 and dedicated cable EC-22 are required for panel type converters, but not required for 2-wire and 4-wire types (on-site installation type) in principle.
3. If a two-wire DC power supply is required, combine the power supply unit PA-24.
4. We also have receivers such as analog meter relay NRE-152HL, alarm setter WVP-HL-36B-1, and 1-pen recorder SA-101P.

■ List of specifications and functions of dissolved oxygen (DO) meter converter

- Standard equipment
● Optional equipment

Category	Model	Transmission output			Alarm output			Automatic range switching	Temperature measurement display	Temperature compensation 10kΩ	HART communication	Response speed switching	Manual Temperature compensation	Transmission output hold input	Power output for cleaning device	Measured value adjustment	Detection of septum film	Built-in arrance	Heavy food painting	Burnout output	Measurement from maintenance mode Automatic recovery to mode
		Insulated DC 4 to 20mA	Temp. DC 4 to 20mA	RS232C	2 circuit a contact	2 circuit c contact	Adjustment sensitivity setting														
Sewage Treatment	4-wire system	ODM-136A	○						○	○		○	○	●			●	●	○	○	
		OBM-162A	○	○	●		○	○		○	○		○	○	●		●			○	
	Panel type	OBM-102A	○		●	○			○	○		○	○	○	●				○	○	
	2-wire system	ODM-135A	○						○	○		○	○	●			●	●	○	○	
		OBM-167H	○		●				○	○	○	○	○			○			○	○	
For low concentration	4-wire system	OBM-300	○			○	○	○	○		○	○									
	Panel type	OBM-100H	○		●	○			○	○		○	○						○	○	
	2-wire system	OBM-165H	○						○	○	○	○			○				○	○	

■ Dissolved Oxygen Electrode Specification List

Usage / Category	Model	Material	Withstanding pressure heat resistant	Velocity (Flow rate)	90% Response	Method Temperature compensated resistor	Combination			
							Lead wire	Electrode Holder	Transmitter	
Drainage / Sewage / Human waste	Immersion type	7533L	PVC (thin film)	0.3MPa 50°C	10cm/s or more	60sec. (25°C)	Polarograph 10kΩ at25°C	ELW-32	OC-711 OC-991/950 NOC-811/815 JOC-711C	ODM-135A ODM-136A ODM-162A ODM-102A
		7536L	PVC (thick film)	0.3MPa 50°C	10cm/s or more	180sec. (25°C)				
	Float	7546L	PVC (thick film)	0.3MPa 50°C	10cm/s or more	180sec. (25°C)	Polarograph 10kΩ at25°C	ELW-32	FOC-711	
For fermentation	L: 160mm	ELD-011	SUS316L	0.5MPa 130°C	10cm/s or more	60sec. (25°C)	No polarograph	DFW-□□F2	Not required	OBM-102A OBM-162A
	L: 250mm	ELD-012								
	L: 320mm	ELD-013								
	L: 126mm	ELD-015								
For detachable	ELD-029	SUS316L	0.5MPa 130°C	10cm/s or more	60sec. (25°C)	No polarograph	ELW-063	HC-R80		
For low concentration	Boiler wataer	7561L	PP	Air pressure 45°C	100 to 300 mL/min	15sec. (25°C)	Polarograph 10kΩ at25°C	ELW-32	OC-64	ODM-100A ODM-110A OBM-300 OBM-100H
		7562L	SUS316							
	Semiconductor	7563L	PP							
		7564L	SUS316							



DKK-TOA CORPORATION



CAUTION

Please read the operation manual carefully before using products.

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Information and specifications are subject to change without notice.