

PANEL TYPE DISSOLVED OXYGEN ANALYZER/TRANSMITTER

Model: OBM-102A

FEATURES

- Panel type dissolved oxygen analyzer/transmitter with digital display, compatible with various power voltages (AC 90 to 264V)
- Compact design, with panel cut 92 x 92 DIN.
- Compatible with DKK-TOA's poralographic and galvanic electrodes.
- Freely settable output range.
- Automatic judgement of electrode qualities during calibration.
- Error messagees and contact signal output when the sample temperature exceeds the temperature compensation range.
- Maintenance mode turns on the ST-BY indicator, holds the value measured just before entering maintenance mode, and sets the control output contact OFF not to disterve the control system. Automatic return to the measurement mode is availbale in case of forgetting to release the maintenance mode.
- Two-circuit control output, each 1a contact. Usual control output or twin-timer control output, selectable by the user. Freely settablee within the measuring range.
- Power-off signal output is available.

OPTIONS:

- Power control of cleaner without timer function, such as JOC models.
- RS-232C interface to data transfer to a PC.

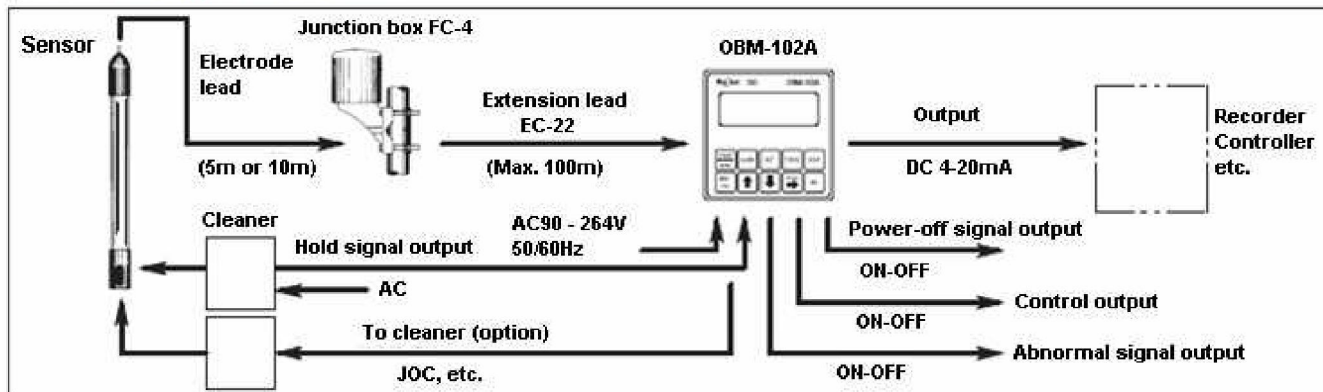


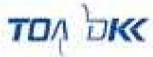
O ₂	: 0.0 to 30.0% (res. 0.1%)
Temperature	: -10.0 to 60.0°C (res. 0.1°C)
Temp. compensation	: 0 to 45°C
Output range: DO	: 0.00 to 50.00mg/L
	Upper limit is freely settable within 1.00 to 50.00mg/L at a 0.01mg/L unit
Performance	
Linearity	: Within ±1% FS
Repeatability	: Within ±0.8% FS
Control functions	
Object	: Dissolved oxygen
No. of contacts	2 points, contact a
Contact capacity	AC 250V, 3A or DC 30V, 3A or less (resistance load)
	Usual control output or twin-timer control output, selectable.
Sensitivity	Freely settable (2 points) 0.00 to 5% of upper limit of measuring range
Power-off output	
When power-off	Open contact signal
Contact capacity	AC 250V, 3A or DC 30V, 3A or less (resistance load)

STANDARD SPECIFICATIONS

Product Name	: Panel type dissolved oxygen analyzer/transmitter
Model	: OBM-102A
Measuring range	:
DO	: 0.00 to 50.00ng/L (res. 0.01mg/L)
	Display only (no output)
SAT	: 0.00 to 200.0% (res. 0.1%)
	Display only (no output)

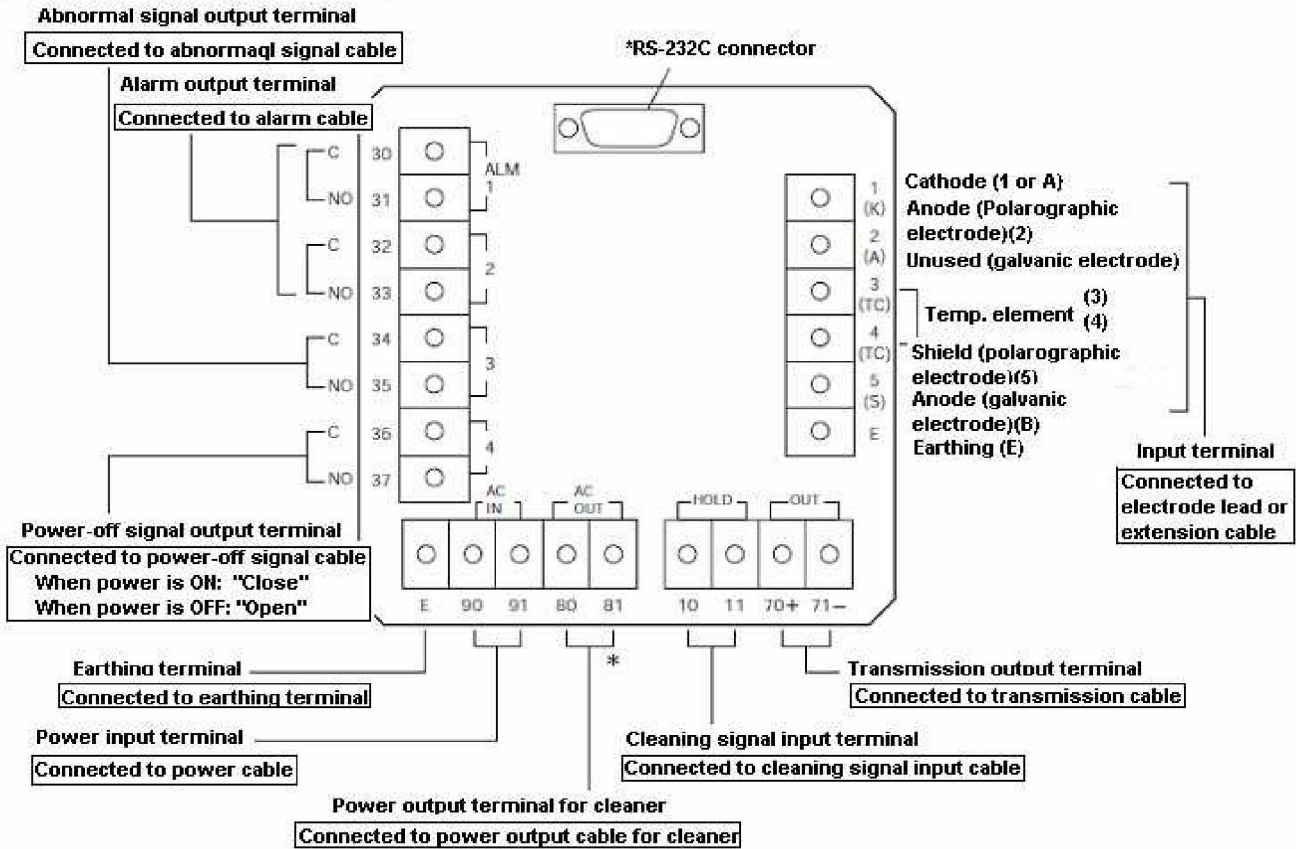
SYSTEM CONFIGURATION





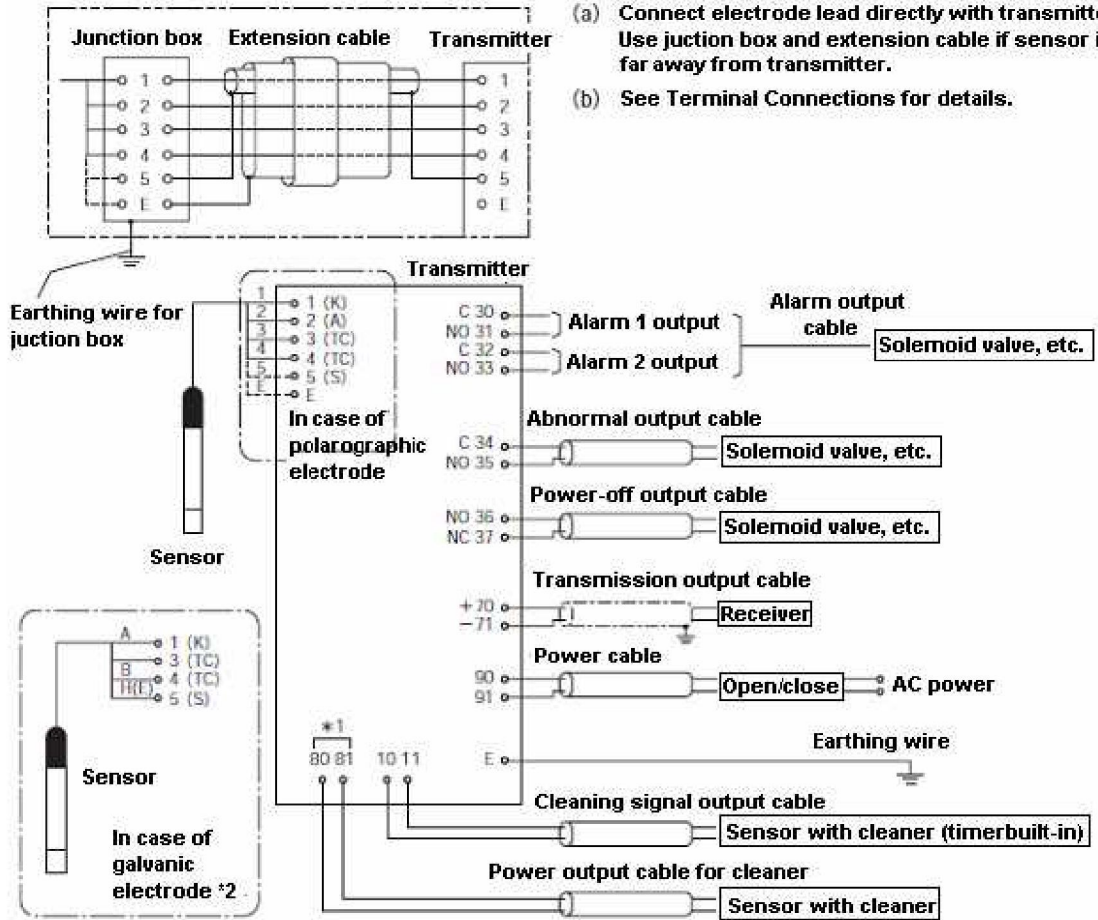
Input terminal during cleaning		Close contact signal, output holding, no-voltage contact	Processor	Microcomputer
Abnormal signal output		Close contact signal when sample tem. exceeds temp. compensation range.	Ambient conditions	-10 to 50°C, 90%RH or less
	Contact capacity	AC 250V, 3A or DC 30V, 3A or less (resistance load)	Power source	AC 90 to 264V, 50/60Hz
Display		LCD display	Power consumption	Approx. 10VA
Calibration	Zero	1. Zero electricity	Construction	Outdoor installation, panel mount
	Span	Atomospheric air or air-saturated water	Dimensions	96(W) x 96(H) x 90(D) mm 92 x 92mm DIN panel cut
Output		Insulated, DC 4 - 20mV, resistance of 650kohm or less	Weight	Approx. 0.5kg
			Auxiliary equipment	
			Electrode	7533L, 7536L, etc.
			Electrode lead	ELW-32
			Junction box	FC-4
			Extension cable	EC-22

TERMINAL CONNECTIONS



WIRING DIAGRAMS

When extension cable is used

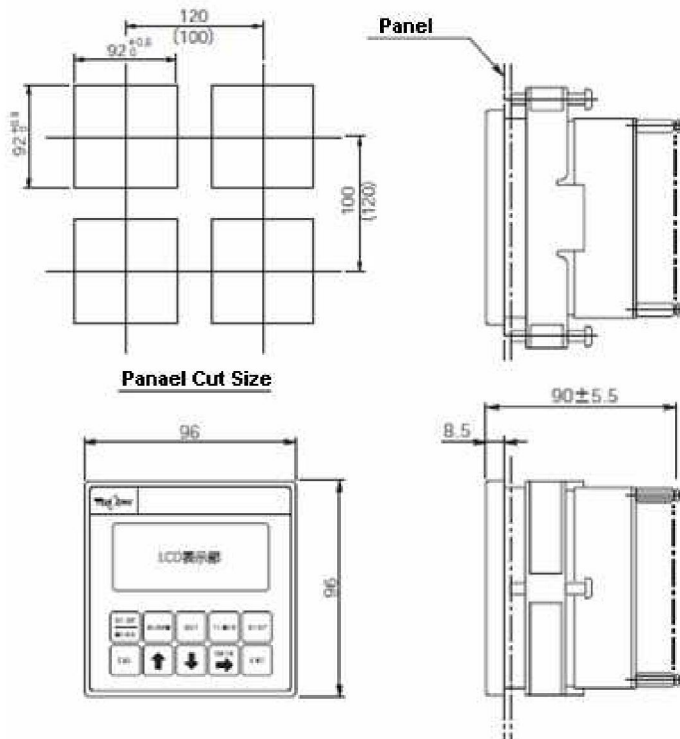


*1: Option

*2: Use manual temp. comp. (M. TMP) setting with terminal C and D unconnected in the case of galvanic electrode with built-in temp. element (OET.****)

DIMENSIONS

Unit: mm



RELATED EQUIPMENT

● **Connection box**

Model FC-4
Structure Outdoor type
Weight Approx. 0.9kg
Case ABS resin
Base ABS resin
Mounting 25A to 50A pipe, wall, or plate mounting

● **Extension cable**

Model EC-22
Outer diameter 8mm
Length 5 to 100m at a 5m unit
Weight Approx. 0.5kg/5m

● **Bar graph meter relay with DC power source**

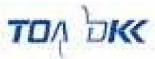
Model BMR-24
Output voltage DC 24V +/- 1V
Input DC 4 to 20mA
 (Input resistance 10 ohm)
Alarm output 4 points
Contact capacity 125V, 0.5A
Display Red LED, 101 dots
Power source AC 85 to 165V, 50/60Hz
Power consumption Approx. 5VA
Ambient conditions 0 to 45deg.C, 40 to 80%RH
Weight Approx. 450g

ELECTRODE HOLDER STANDARD SPECIFICATIONS

Product Name			Immersion type DO electrode holder	Flow-through type DO electrode holder	Flow-through type DO electrode holder	Drop-in DO electrode holder		Immersion type DO electrode holder with jet cleaner*	Flow-through type DO electrode holder with jet cleaner*	Throw-in DO electrode holder with jet cleaner*	
Model No			OC-711	NOC-814	NOC-815	OC-991	OC-950	JOC-711 C	JOC-811 C	JOC-950 C	
Cleaner			None					Included			
Cleaning Method			-					Cyclic air or water jet cleaning			
Cleaning water or air	Pressure		-					0.05~0.5 MPaG (sample pressure above 0.05~0.1MPaG)			
	Amount	Sample	-					1.5~3.5l/mm			
		Air	-					6~10L/min			
Installation			Immersion type	Flow-through type		Drop-in type		Immersion type	Flow-through type	Drop-in type	
Temp range	Sample		0~45°C (no freezing)								
	Ambient		-5~50°C							0~50°C	
Pressure Range			Ambient pressure	Below 0.1MPaG	Ambient pressure	Ambient pressure		Ambient pressure	Below 0.3MPaG	Ambient pressure	
Weight (Approx.)			1kg (Total length 1m)	2kg	5kg	3kg (Pipe: PVC)	4kg (Pipe: SUS 316)	3kg (Total length 1m)	5kg	5kg (Total length 1m)	
Combined electrode			7533L (general use) or 7536L (for waste water treatment applications)								
Wetted materials			PVC, PP			PVC, PP, SUS316					
Connection specifications			-	25A JIS 10K FF	25A JIS 10K FF	-		-	25A JIS 10K RF	-	
Cleaning cycle			-					Refer to cleaning function of transmitter			
Cleaning time			-								
Power source			-					100V AC +/-10%, 50/60z			
Power consumption			-					Approx. 25VA			

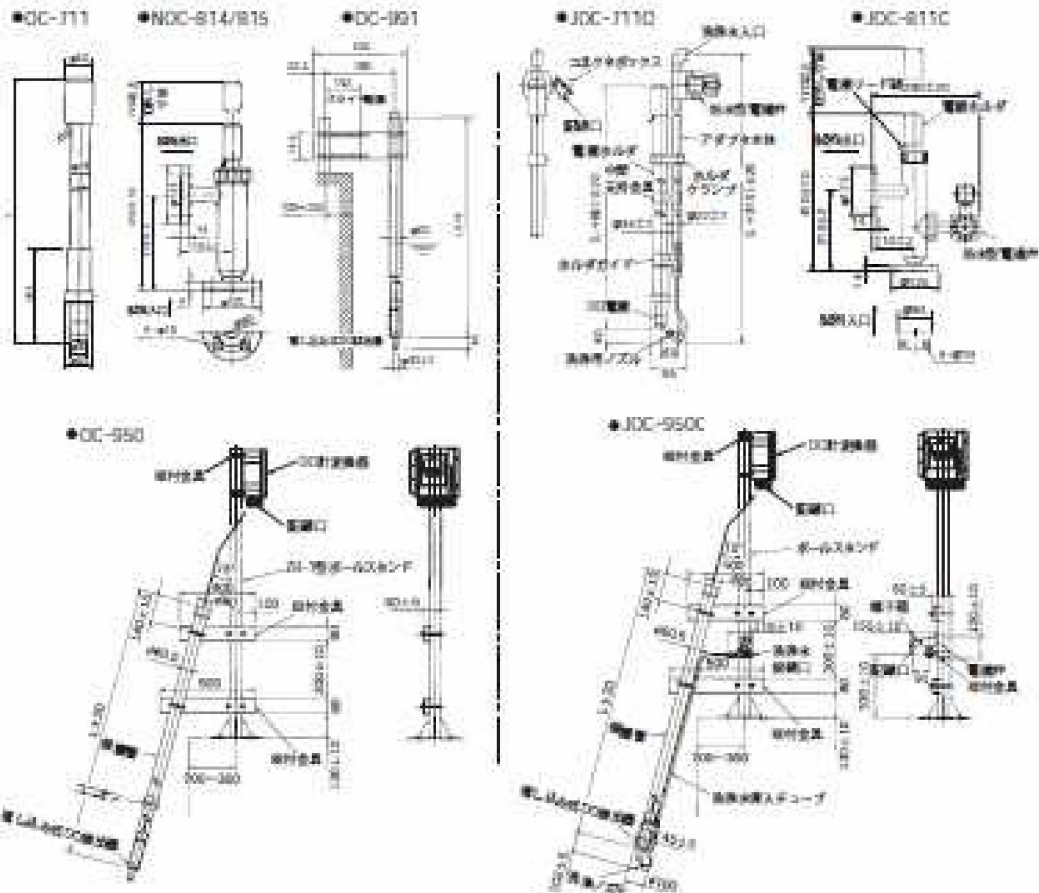
*Water or air jet-spray is applied onto the tip of electrode to clean the electrode.

= DRAFT = FOR REFERENCE ONLY =

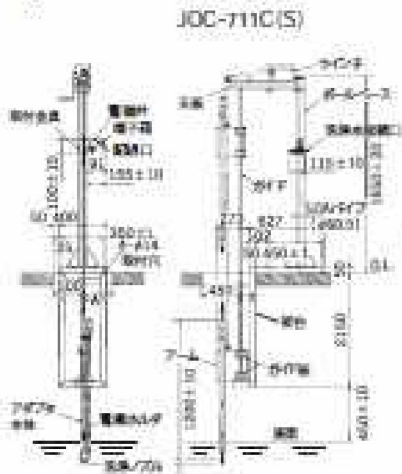


DIMENSIONS

Unit: mm



● Option



● Option

