ISO-14001 ISO-9001

SPECIFICATION SHEET



PANEL TYPE DISSOLVED OXYGEN ANALYZER/TRAQNSMITTER

Model: OBM-102A

FEATURES

- Panel type dissolved oxygen analyzer/transmitter with digital display, compatible with varioous 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.

STANDARD SPECIFICATIONS

OPTIONS:

Product Name

Measuring range

DO

SAT

Model

 Power control of cleaner without timer function, such as JOC models.

: Panel type dissolved oxygen

0.00 to 50.00ng/L (res. 0.01mg/L)

analyzer/transmitter

Display only (no output)

Display only (no output)

0.00 to 200.0% (res. 0.1%)

OBM-102A

RS-232C interface to data transfer to a PC.



O₂ : 0.0 to 30.0% (res. 0.1%)

Display only (no output)

Temperature : -10.0 to 60.0°C (res. 0.1°C)

Display only (no output)

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 $\pm 1\%$ FS Repeatability : Within $\pm 0.8\%$ 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.

Sensivity Freely settable (2 points)

0.00 to 5% of upper limit of

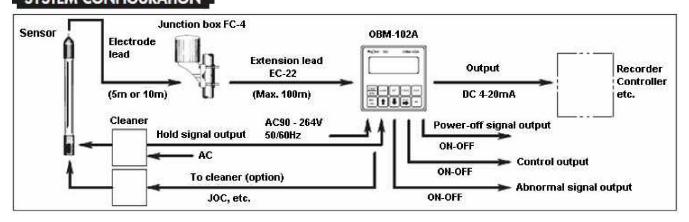
measuring range

Power-off output

When power-off Contact capacity

Open contact signal AC 250V, 3A or DC 30V, 3A or less (resistance load)

SYSTEM CONFIGURATION





Input termional during cleaning

Close contact signal, output

holding, no-voltage contact

Abnormal signal output Close contact signal when sample

tem. exceeds temp. compensation

range.

Contact capacity AC 250V, 3A or

DC 30V, 3A or less (resistance load)

DisplayLCD displayCalibrationZero1. Zero electricity

2. Zero solution

Span Atomospheric air or air-saturated

water

Output Insulated, DC 4 - 20mV, resistance

of 650kohm or less

Processor Microcomputor

Ambient conditions -10 to 50°C, 90%RH or less Power source AC 90 to 264V, 50/60Hz

Power consumption Approx. 10VA

Construction Outdoor installation, panel mount

Dimensions 96(W) x 96(H) x 90(D) mm 92 x 92mm DIN panel cut

Approx. 0.5kg

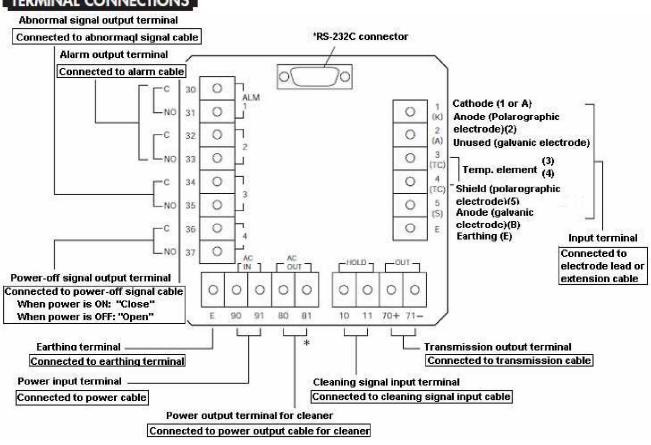
Auxiliary equipment

Weight

Electrode 7533L, 7536L, etc.

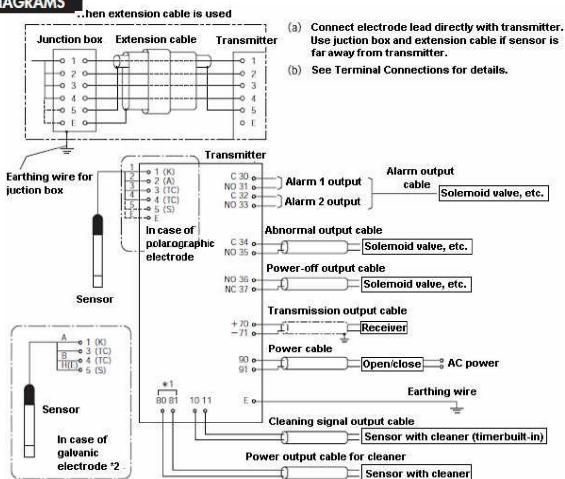
Electrode lead ELW-32 Junction box FC-4 Extension cablee EC-22

TERMINAL CONNECTIONS



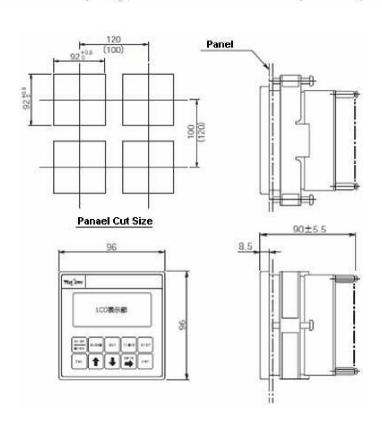






DIMENSIONS Unit: mm

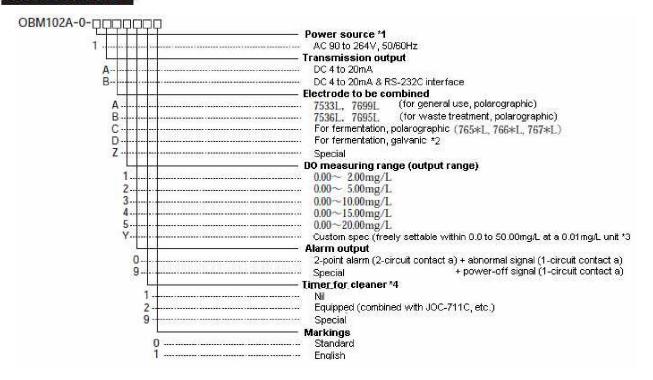
*1: Option



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



PRODUCT CODE



*1 The transmitter is compatible with power source of AC 90 to 264V, and supplies power to the cleaner at the same voltage. So, be careful about the power source specifications of the cleaner.

- *2 Use the manual temperature compensation (M. TMP.), with the terminals C and D unconnected, for galvanic electrodes with temperaqture element (OET-****).
- *3 Advise DKK-TOA of the range when selecting custom spec.
- *4 Even if selecting "Nil" for timer for cleaner, output holding function operates by the contact signal (On/Off) from the cleaner with timer.

Note:

The transmitter can be combined with only the electrodes with temperature element of 10 kohm thermister or with plutinum resister bulb of 1 kohm 1deg.C.



RELATED EQUIPMENT

Connection box

Model FC-4

StructureOutdooe typeWeightApprox. 0.9kgCaseABS resinBaseABS 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

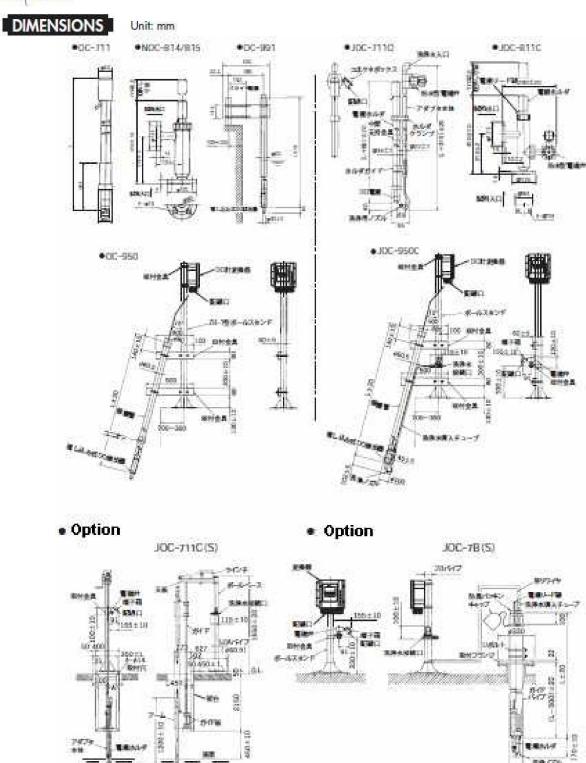
Weight Approx. 450g

ELECTRODE HOLDER STANDARD SPECIFICATIONS

Product Name			Immersion type DO electrode holder	Flow-through type DO electrode holder	Flow-through type DO electrode holder	D elec	p-in O trode Ider	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-811C	JOC-950c
Cleaner			None					Included		
Cleaning Method			(#*)					Cyclic air or water jet cleaning		
Cleaning	Pres	sure	3 3				0.05~0.5 MPaG (sample pressure above 0.05~0.1 MPaG)			
water or air		Sample					1.5~3.51L/mm			
	Amount	Air	25				6~10L/min			
Installation			Immersion lype	Flow-thro	ough 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 0.15MPaG	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 w					rater treatment applications)		
Wetted materials			PVC, PP					VC, PP, SUS316		
Connection specifications			(4)	25A JIS 10K FF	25A JIS 10K FF	-		2	25A JIS 10K RF	
Cleaning cycle								Refer to cleaning function of		
Cleaning time								transmitter		
Power source			889					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.





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