

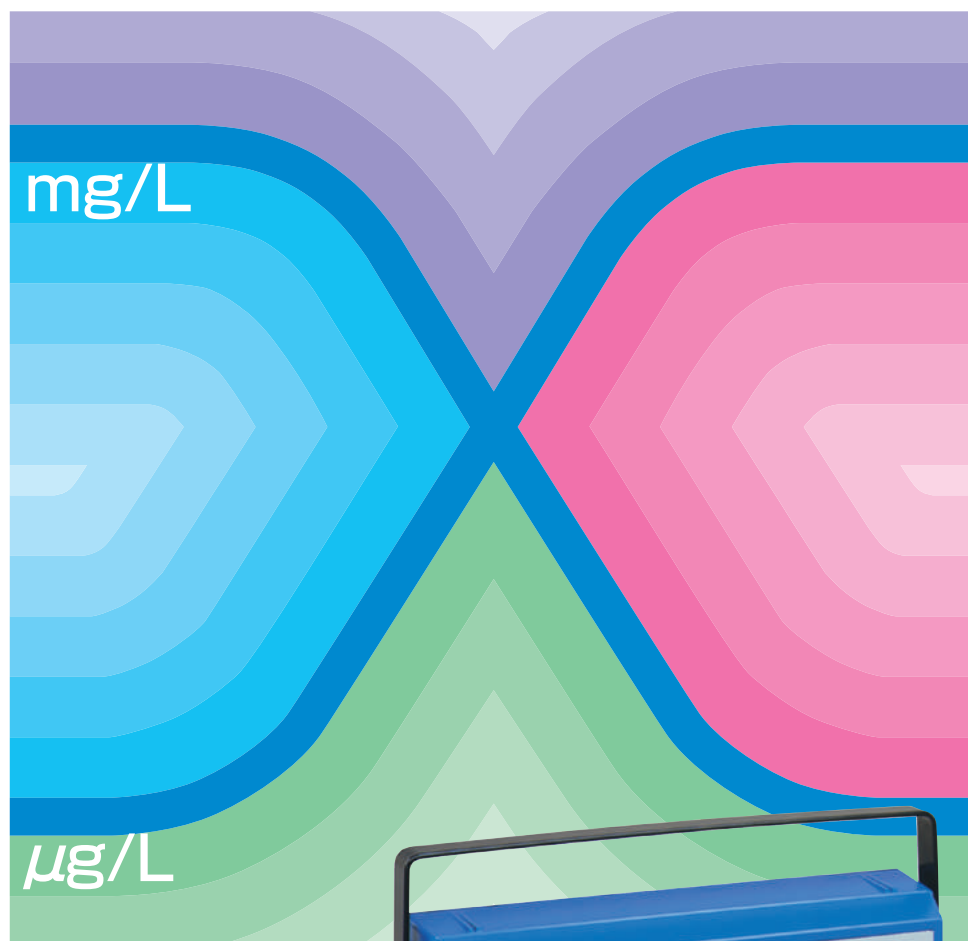


DO-32A

PORTABLE LOW DENSITY DISSOLVED OXYGEN METER

$\mu\text{g/L}$ (ppb) range of sample can be accurately measured with high response

Continuous measurement available with easy maintenance



With DO-32A, trace volume of dissolved oxygen contained in the water supply systems of thermal power plants, nuclear power plants, metallurgical test plants, and semiconductor manufacturing equipment can be measured with high response and high accuracy. Operability and functionality have been greatly improved by reflecting the opinions and demands of relevant customers at any time on the basis of conventional DO-30A.

For example, one of its strong features is the automatic range selection of measurements along with temperature simultaneous measurements and simultaneous display.

Measurement of sudden variations in DO volume, continuous measurement regardless of day and night, recording, etc. are enabled.

DO-32A will proceed new development of water quality management with superior performance.



DKK-TOA CORPORATION

DO-32A LOW DENSITY DISSOLVED OXYGEN METER

Features

●Wide Dynamic Automatic Range Selection

It covers wide range from 0 to 20 $\mu\text{g/L}$ (ppb) to 0 to 20mg/L(ppm) in the measurement range. In addition to this wide measurement range, full automatic range selection function is available. Automatic temperature compensation function enables to measure dissolved oxygen volume from ultra low density level such as $\mu\text{g/L}$ (ppb) range to air saturated high range with accurate performance.

●High Response & Long Life Span

Membrane type polarographic electrode is adopted for electrode. Therefore, long life span and high response are realized. In addition, two types of electrodes are prepared; for general use and for nuclear power station use. DO-32A can meet a wide range of requirements

●Easy Calibration

Span calibration can be done by air and also it is possible to make zero check calibration by electric zero (panel zero check) other than conventional calibration by zero check solution.

●Temperature Measuring Function

Temperature along with dissolved oxygen volume can be displayed simultaneously and these data can be output from meter to analog recorder for monitoring.

●Compact Design & Easy Maintenance

The flow cell is designed as a compact type and it is easy to operate and maintain. Dripproof construction is adopted to the main unit, thus it will be durable against water splashing.

●Two Power Sources

Power supply can operate on batteries in addition to AC power supply. Consequently, it can be used for the field work where AC power supply is not available. Approximately 400 hours of continuous measurement can be achieved with batteries. (When using C size alkaline batteries)

●With Analog Output Terminal

When analog recorder is connected to the output terminal, dissolved oxygen volume and temperature can be continuously monitored. (Supplied with an output cable as standard)

Specifications

Measuring method	Membrane type polarographic method	
Display unit	LCD display unit	
Measurement range	Dissolved oxygen	0 to 19.99 $\mu\text{g/L}$ (ppb) 0 to 199.9 $\mu\text{g/L}$ (ppb) 0 to 1.999 mg/L(ppm) 0 to 19.99 mg/L(ppm)
	Temperature	0 to 45.0°C
Range selector (main unit)	Auto/Manual	
Repeatability (main unit)	Dissolved oxygen	$\pm 0.1 \mu\text{g/L}$ (0 to 19.99 $\mu\text{g/L}$ range) $\pm 0.3 \mu\text{g/L}$ (0 to 199.9 $\mu\text{g/L}$ range) $\pm 0.003\text{mg/L}$ (0 to 1.999 mg/L range) $\pm 0.03 \text{mg/L}$ (0 to 19.99 mg/L range)
	Temperature	$\pm 0.5^\circ\text{C}$
Temperature compensation range	Automatic Temperature Compensation (5 to 45°C)	
Analog Output	Dissolved oxygen	0 to 1V (in 0 to F.S of the respective ranges)
	Temperature	0 to 450mV (0 to 45°C)
	Range output	100mV (0 to 19.99 $\mu\text{g/L}$ range) 200mV (0 to 199.9 $\mu\text{g/L}$ range) 300mV (0 to 1.999 mg/L range) 400mV (0 to 19.99 mg/L range)
Ambient condition	Temperature: 0 to 45°C, Humidity: 0 to 85% RH	
Power source	Six C size alkaline batteries or AC100V (Dedicated AC adapter)	
Dimensions / Weight	Approximately 160 (H) \times 250 (W) \times 95 (D) mm, Approximately 2.1kg	

Standard Accessories

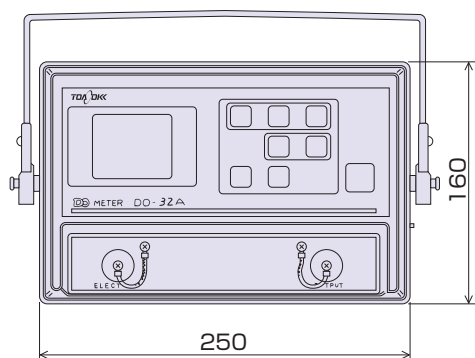
Low Concentration DO Electrode OE-584302	Output cable DO-350L
Flow cell DO-F-30	Carrying Case 137C024
Six C size alkaline batteries (for test use)	Shoulder belt DO-SB
AC adapter YD-12	Operation Manual

Dissolved Oxygen Electrodes

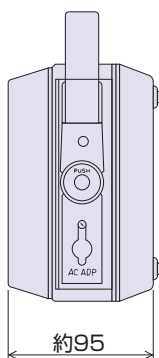
Type	OE-584302	OE-584402
Application	For general use (Standard)	For nuclear related use
Wetted materials	FEP, PP, Epoxy, Silicone rubber	FEP, PP, Epoxy, SUS316, Silicon rubber
Housing material	PP	SUS316
Measurement solution conditions	Pressure	0.5MPa(5kgf/cm ²) or less
	Flow rate	0.05 to 2L/min (when using a flow-cell)
	Temperature	0 to 50°C
Features	●High response: approximately 15 minutes (25°C) * from saturation to 5 $\mu\text{g/L}$	
	●Low residual current: less than 1 $\mu\text{g/L}$	
	●Long life span of electrolytes: approximately 6 months when using 10mg/L sample continuously	

*Measurement conditions: zero liquid → Air saturated liquid for 5 minutes → zero liquid

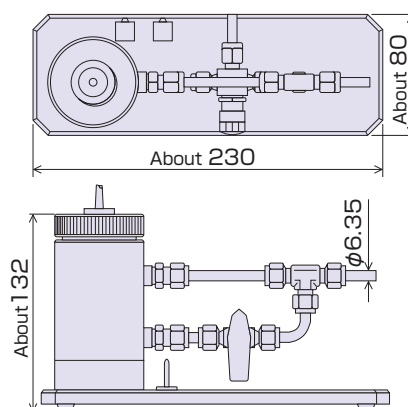
External Dimensions (unit:mm)



Main body



Flow cell(DO-F-30)



low concentration DO electrode
(OE-584302/584402)



DKK-TOA CORPORATION

Overseas Sales Division:
DKK-TOA Corporation
29-10, 1-Chome, Takadanobaba, Shinjuku-ku, Tokyo 169-8648 Japan
Tel : +81-3-3202-0225 Fax : +81-3-3202-5685
E-mail : intsales@dkktoa.com

<https://www.toadkk.com/english>



CAUTION

Please read the operation manual carefully before using products.

Specifications and prices are subject to change without notice.

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