

**HANDHELD DISSOLVED OXYGEN METER**

Model: DO-24P

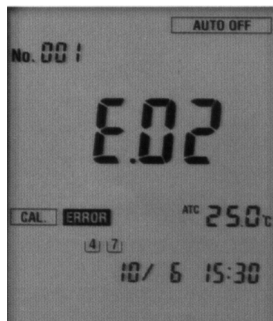
These instruments form part of the P20 series family of hand-held, waterproof meters.

**FEATURES**

- **Waterproof construction (IP67)**  
Can be used outside in all weather conditions, no need to worry if the meter is dropped into rivers, lakes or seas. Sensor can be immersed to a depth of 10m (excluding certain special sensors).
- **Full validation supporting functions**  
Supports ISO-14000/9001.
- **Built-in clock function**  
Time and measured value are constantly displayed allowing real-time observation. Data storage enables recalling of measurement times. Easy confirmation of previous calibration time.
- **Data storage function built into sensor itself**  
The sensor itself can store information including type, lot no. and cell constant. This information can be printed out when connected to an optional printer.  
For conductivity sensors, the cell constant is automatically loaded when connected eliminating manual setting requirements and human errors.
- **Calibration data display**  
The latest calibration data and results can be displayed. In addition, data from previous calibration history is available from the built-in memory sensor "Calibration Memo". These features provide smooth operation and instrument management.
- **Calibration error display**  
The sensor condition is automatically determined during calibration and an error code is displayed if a problem is detected. Maintenance and sensor replacement can be carried out exactly when required optimising instrument management.

• **Wide range of standard optional features.**

- Auto power off function on/off setting.
- Keypad lock function.
- Temperature Calibration function (single point).
- Auto-hold function for automatic stability judgement of measured value.
- Optional external printer (uses plain paper).
- Optional data acquisition software (G-LOG2) allows data to be transferred to PC (CSV format). Once transferred to PC, the data can be manipulated and presented using third party software such as spreadsheets etc.



Error No. display.



**EXPANDABLE FUNCTIONS**

Function	Specifications
AC adapter	: Uses an exclusive adapter
Printer output *	: Printer output
<b>RS-232C interface*</b>	
Communication method	: start/stop transmission.
Baud rate	: 9,600 bps Character.
Length	: 8 bit
Parity	: None
Stop bit	: 2
	: Specified PC connecting cable
<b>Analogue output</b>	
DO	: 1V F.S.
Temp.	: 0~99.9°C → 0~1V. : Specified analog output cable

\* Can not be used simultaneously.

**OPTIONS**

For smooth field measurement, indoor measurement and/or data processing needs.

- **External printer EPS-G \*\***  
Uses normal paper suitable for long-term storage. 60mm effective chart.
- **Data acquisition software G-LOG2 \*\***  
This enables the data to be downloaded in CSV format into a PC, enabling data management using third party software such as spreadsheets, databases etc..
- **RS-232C cable 2m long \*\***  
D-sub9P type connector at PC side.
- **AC adapter 0AA00001 \*\***
- **Electrode stand 01F00001**
- **Electrode holder 01B00001**
- **Electrode attachment tip 01B00007**
- **Stick holder**  
Sensor with 5m or more lead wire is required.
- **Twin stick holder**  
Enables use of two electrodes.
- **Anchor 01C00001**  
For waterproof type pH, ORP, DO sensor or conductivity cell.
- **DC drive stirrer ST-1A**  
For DO-21P or IM-22P.
- **Submersible stirrer 0SM00002**  
W/conversion adapter only for DO sensor OE-270AA.
- **Carrying case 0DA00001**  
Meter, sensor etc... are encased in this case.
- **Soft case SC-10P**  
The meter with sensor connected is encased.
- **Analog output cable \*\***  
For connecting to recorder.
- **Temp. check plug TC-1G**
- **Conductivity check plug EC-1G**

\*\* Disconnectable to HM-20P/RM-20P.

**SPECIFICATIONS**

<b>Measuring Method</b>	: Galvanic cell method
<b>Measuring Rang</b>	: 0~19.99mg/L, 0~199% High conc. range; 0~50.0mg/L, 0~500%
<b>Repeatability</b>	
DO	: ±0.02mg/L ±1 digit, %: ±2%
<b>Temperature</b>	: 0~50°C
<b>Temperature Compensation</b>	: automatic
<b>Calibration</b>	: Zero/span calibration
<b>Data Storage</b>	: 300 data
<b>Temperature Calibration</b>	: 1 point calibration
<b>Salinity Compensation</b>	: provided
<b>Auto Hold Function</b>	: provided
<b>Interval Function</b>	: provided (5 sec.~99min.59sec.)
<b>Clock Function</b>	: provided
<b>Power Source</b>	: AA size dry battery x 2pcs.
<b>RS-232C Output</b>	: provided
<b>Analogue Output</b>	: provided
<b>Water Proof</b>	: IP67
<b>Ambient Temperature</b>	: 0~40°C
<b>Dimensions</b>	: Approx. 187.5(w) x 37.5(h) x 75(w) mm
<b>Weight</b>	: Approx. 310g

**STANDARD ACCESSORIES**

D.O electrode OE-270AA (lead length 3m)	1 ea.
AA size dry battery	2 ea.

**OPTIONS**

- DO sensor for BOD (lead length 1m), OE-470AA with built-in stirrer
- DO sensor (lead length 5m or 11m) OE-270AA
- Membrane set for high conc. range for OE-270AA (3 pcs.)
- Submersible stirrer for OE-270AA
- DO module tip for OE-270AA
- Sodium sulfite, 50g for DO-zero solution, NA2SO3-5
- Anchor for OE-270AA
- Carrying case

**SPARES**

Membrane set for OE-270AA (3 pcs.)  
Electrolyte R-9, 50mL x 3 btl.

**DKK-TOA CORPORATION**

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**CAUTION**

Do not operate products before consulting instruction manual.