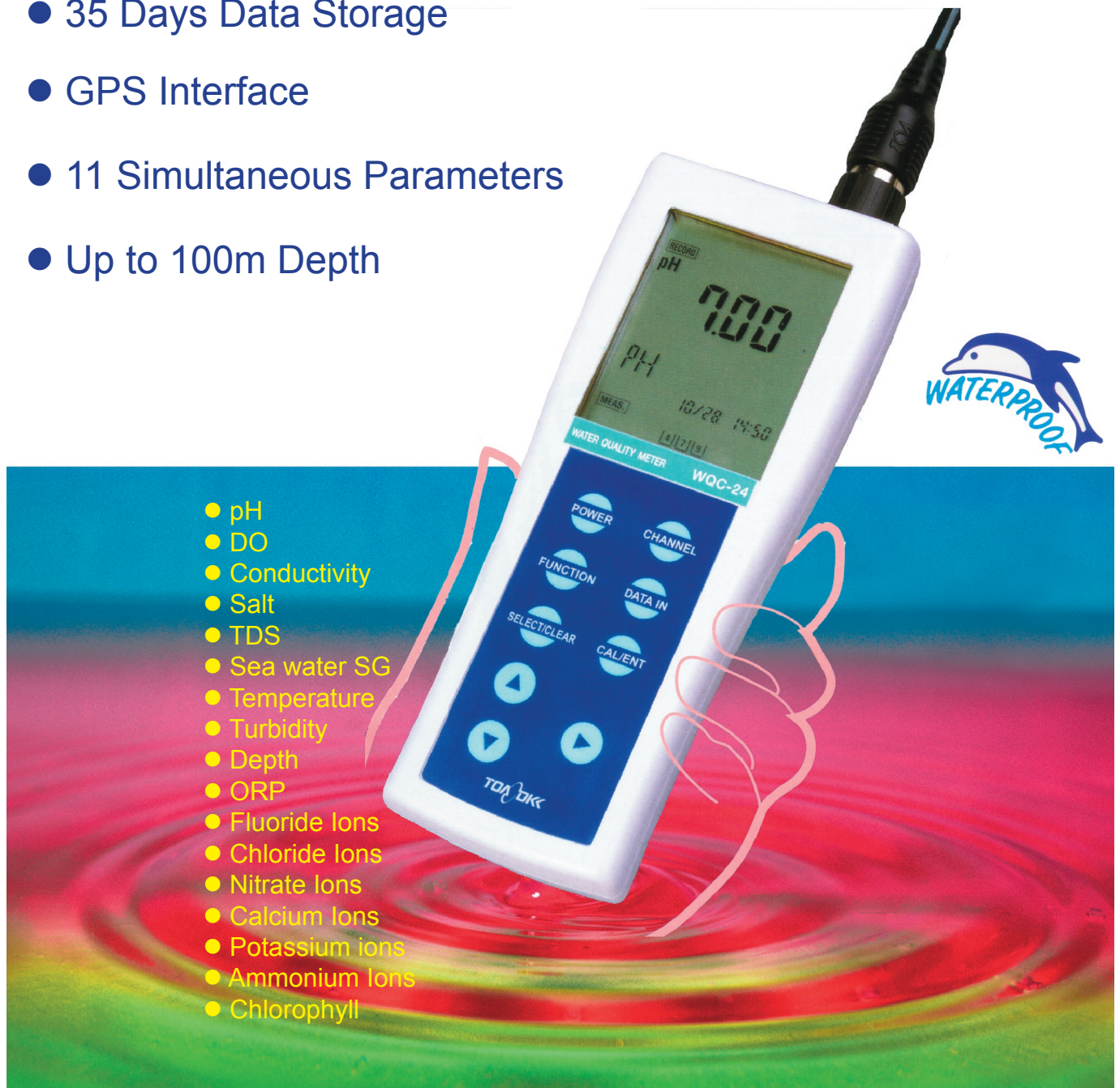


Portable Water Quality Meter Model WQC-24

- 35 Days Data Storage
- GPS Interface
- 11 Simultaneous Parameters
- Up to 100m Depth

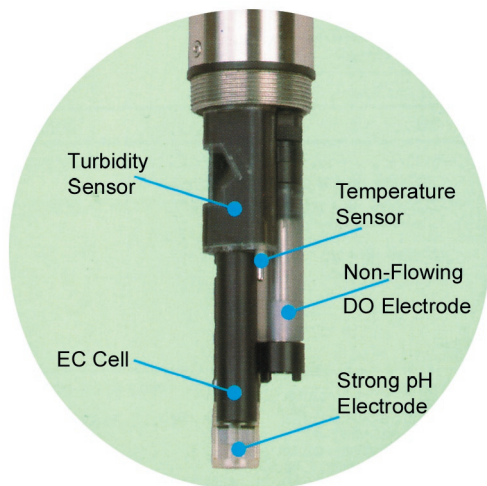


DKK-TOA CORPORATION





Compact 45mm Sensor Probe



Standard Sensor Module



Meter and Sensor

Measurement of up to 11 Simultaneous Parameters.

The Model WQC-24 is the latest development in DKK-TOA's range of multi-parameter water quality meters. The very latest technologies combined with more than 50 years experience have resulted in a compact, high performance and robust water quality monitoring system. The 45mm outer diameter sensor probe can provide measurement of up to 11 parameters simultaneously out of a total of 17 available parameters. The instrument also features an interface port for connection to a Global Positioning System (GPS), Local Area Network (LAN) printer or other communication peripherals.

Features

Multiple Parameter Combinations

The sensor probe can measure up to 11 parameters out of 17 available (pH, ORP, DO, EC, Turbidity, Temperature, Salinity, Total dissolved solids, Specific gravity and Water depth plus Chlorophyll and Ions of NO_3^- , Cl^- , F^- , Ca^{2+} , K^+ , NH_4^+).

Newly Developed High Performance Sensors

pH sensor is equipped with our "Strong" electrode and pressure compensator. DO sensor is functional even under non-flowing conditions.

Compact Sensor Probe

45 mm outer diameter sensor probe fits into a 2-inch well.

Robust Sensor Probe Resisting Sea water & High Pressures

Sensor probe facilitates measurements as far as 100 meters below the water surface and up to max pressure of 1 MPa (excluding ion sensors).

Data Logging Storage Capacity Exceeds One Month

Built-in memory stores measured data for 35 days of continuous measurements (based on measurement every 15 minutes).

Interface Port Compatible with Global Positioning System (GPS)

An interface port is available for connection to GPS, Printer, RS-232C, LAN, Cellular phone or other data communication peripherals.

Available Parameters

Module		Parameters	Display Range	Repeatability (Meter)	Measurement Method	Calibration				
Standard Module	Ion Module (Equipped with Max 3 items out of ORP + Ions)	Chlorophyll Module (equipped with max 2 items out of ORP + Ions)	pH	0~14	+/- 0.05 pH	Glass electrode	2 or 3 point calibration at 4,7,9 pH			
			Dissolved Oxygen	0~20 mg/L	+/- 0.1 mg/L	Galvanic membrane electrode	Span calibration			
			Conductivity	0~10 S/m (display) 0~100 mS/m 0~1 S/m 0~10 S/m (auto ranges)	+/- 1% FS	AC 4-electrodes	Span calibration (on demand)			
			Salt	0~4 %	+/- 0.1%	Converted from conductivity value	-----			
			Total Dissolved Solids	0~100 g/L	+/- 2 g/L					
			Seawater Specific Gravity	0~50 σt	+/- 0.1σt					
			Temperature	-5~50 °C	+/- 0.25°C	Thin film platinum resistance				
			Turidity	0~800 NTU	+/- 3% FS	Transmitted/scattered light	Zero & span calibration			
						Fluoride ion	0.019~19000 mg/L	+/- 5% rdg	Ion electrodes	2 point calibration
						Chloride ion	1~35000 mg/L			
Nitrate ion	0.62~62000 mg/L									
Calcium ion	0.4~40000 mg/L									
Potassium ion	0.39~3900 mg/L									
Ammonium ion	0.09~1800 mg/L									
Chlorophyll	0~400 µg/L	Resolution 0.1 µg/L				Fluorescence	Span calibration (on demand)			
†	†	†	ORP	-2000~2000 mV	+/- 5 mV	Platinum electrode	-----			
‡	‡	‡	Water Depth	0~100 m	+/- 0.1 m	Diaphragm	Span calibration (on demand)			

Notes:

† ORP measurement available as an option in all configurations. The ORP sensor chip replaces the standard pH sensor chip.

‡ Water depth measurement available as an option in all configurations.

For Ion measurements, the sample must be first collected and the measurement carried out in the sample container. Ion measurement by directly immersing the probe into the field sample (such as river water) is not available.

Standard Specifications

Product Name:	Portable Water Quality Meter	Data Storage:	Internal memory can store 14 parameters for 35 days (for measurement interval of 15 minutes).
Model:	WQC-24	Power Source:	Meter; 2 x AA size dry batteries or AC adapter. Sensor; 3 x A3 dry batteries.
Display:	LCD, Digital.	Outline Dimensions:	Meter; 187.5 (l) x 75 (w) x 37.5 (h) mm (approx., excluding projections). Sensor; 45 (OD) x 408 (l) mm
Waterproof Construction:	Meter: IP-67, JIS C0920 (assuming cable is connected). Sensor Module: Waterproof up to 1 MPa pressure.	Weight:	Meter; 320g (approx.). Sensor; 1350g (approx.).
Interface Port:	Standard RS232C, can be extended to printer, GPS, LAN or cellular phone.	Operating Temperature:	Meter; 0~40°C. Sensor; 0~50°C.
Analogue Outputs:	DC 0~1V, 2 channels selectable from measured parameters (common line).		
Digital Outputs:	One alarm output and one measurement timing output (DC36V, 100mA or less, open collector type with common line).		

Standard Accessories

- Alkali dry batteries, AA size (LR6), 5 pcs
- Buffer solutions for pH6.68 & pH4.01, 2 x 50mL bottles
- pH internal electrolyte solution, 50mL bottle
- Replacement junctions for pH electrode, 2 pcs
- Membrane sets for DO electrode, 2 sets
- DO internal electrolyte solution, 50mL bottle
- Special tools (spanner, driver), 1 set
- Calibration receptacles, 2 pcs
- Connector cap, 1 pcs
- Connector cap packing, 1 pcs
- Soft case (with shoulder belt), 1 pcs
- Connection cable (2m), 1 pcs
- Instruction manual, 1 copy

Options

- ORP electrode
- Depth Measurement
- Fluoride ion electrode
- Chloride ion electrode
- Nitrate ion electrode
- Calcium ion electrode
- Ammonium ion electrode
- Potassium ion electrode
- AC adapter
- RS-232C cable
- Printer
- GPS system
- Data storage software
- Connection cable (10m, 30m, 100m)

Due to continuous product improvement, specifications contained herein are subject to change without notice.



Always read the instruction manual before operation.

International Operations:

DKK-TOA Corporation
29-10, 1-Chome, Takadanobaba, Shinjuku-ku, Tokyo 169-8648 Japan
Tel: +81-(0)3-3202-0225 Fax: +81-(0)3-3202-5685

Representative Office (Europe):

DKK-TOA European Representative
St. Johns Innovation Centre, Cowley Rd., Cambridge CB4 0WS UK.
Tel : +44 (0)1223-526471 Fax : +44 (0)1223-709239

www.dkktoa.net www.toadkk.co.jp

Local Representative: