

Residual Chlorine Meter Model RC-37P



A portable, easy to use solution for measurement of Residual Chlorine in Washing Applications

Features

No Reagents Required

Polarographic method enables measurement to be carried out easily without the need for reagent treatment and management. This reduces operating costs compared to using DPD method for measurements. It also allows more stable measurements without the human errors associated with colorimetric measurements.

Measurement Range: 20~300 mg/L

Wide measurement range provides flexibility and the ability to cope with different solution concentrations.

Waterproof Construction

Meter is constructed to IP 67 standards and can withstand complete immersion into water (1m for 30 minutes). Provides worry free operation in outdoor environments.

Measurement Data Stored in Internal Memory

The instrument includes time functions and internal storage of 1000 measurement results.

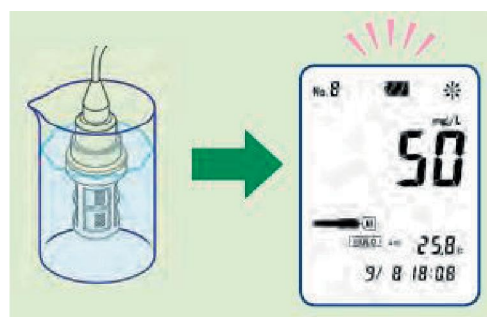
RS232 Interface

Stored data can be printed using a separately available printer or data can be sent to other peripherals such as personal computers etc. for further statistical manipulation.



Measurement Procedure

Measurement is performed after collecting sample in the container and commences after the ENTER/HOLD button is pressed. The use of a beads cleaning system continuously polishes the sensor during measurement.



Notes

- Please check correlation to reference method such as DPD method on a regular basis.
- Some applications may not be feasible depending upon sample conditions, please contact us with information on your application prior to purchase.

Specifications

Model code	RC-37P
Corresponding electrode	ELM-001
Measurement method	Polarography method (with beads cleaning kit)
Measurement object	Residual chlorine
Sample conditions	Chlorine disinfection solution (sodium hypophosphite diluted with city water or ground water. pH: 8.0~10.0, Conductivity within 30~90 mS/m) - Solutions that have previously been used for vegetable washing may contain interfering components. - Measurement may not be feasible for sample solutions containing high levels of reducing agents such as tannins or samples with high turbidity. - Sample solutions that have previously been used for washing meats of fruits are not possible to be measured. We recommend measurement prior to use for washing. - Measurement is not feasible for electrolyzed water (electrolyzed hypochloric acid and strong acid solutions).
Measuring range	Residual Chlorine: 20~300 mg/L, Temperature: 5~40°C
Repeatability	High Mode: ± 30 mg/L (at 25 °C), Temperature ± 0.5 °C Low Mode: ± 40 mg/L (at 25 °C), Temperature ± 1.0 °C
Response time	High Mode: 1 min, 30 seconds or less (at 25 °C) Low Mode: 1 min or less (at 25 °C)
Temp. compensation range	Automatic, 5~40°C
Interference element	Chemical REDOX
Alignment function	Alignment with other measured value from reference instrument.
Waterproof construction	Immersion proof, IP67 for both sensor and meter with interface connections covered (30 minutes at 1m depth)
Printer interface	Interface to external printer (Model EPS-P30, available as a separate purchase)
RS232C interface	RS-232C interface equipped as standard for connection to external device such as PC (available separately)
Ambient temp. and humidity	0~45°C, 90% RH or less (no condensation)
Power source	Alkali or nickel hydride battery LR6 (AA size) x 2pcs
Dimensions	Main body: approx. 68 (w) x 35 (h) x 173 (d) mm, Sensor: approx. 34 (max. dia.) x 142 (length) mm
Weight	Main body: approx. 280g (incl. batteries) Sensor: approx. 180g (with beads cleaning kit attached)
Standard accessories	Residual chloride sensor (ELM-001) x 1, Beads polishing kit (OIZ00005) x 1, Hand strap x 1, Instruction manual x 1, Measurement beaker (136C300) x 1, AA size dry battery (for test) x 2, Simplified instruction manual x 1.

Consumables

Description	Code	Description	Code
Residual chlorine sensor, cable length: 1m	ELM-001	Ceramic beads	123G007
Beads polishing kit	OIZ00005		

Options

Description	Code	Description	Code
Beads polishing kit, stainless steel	6787400K	External printer with cable (for long term data recording on paper)	EPS-P30
Maintenance kit	6795730K	Printer paper (20 rolls)	P000119
Data Acquisition Software for PC	GP-LOG	Ink ribbon x 1	ORD00001
RS232 connecting cable, 2m	118N062	Cable for external printer (suitable for EPS-G, EPS-R printers)	118N061
Carrying case with shoulder strap	ODA00001		

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



Always read the instruction manual before operation.

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