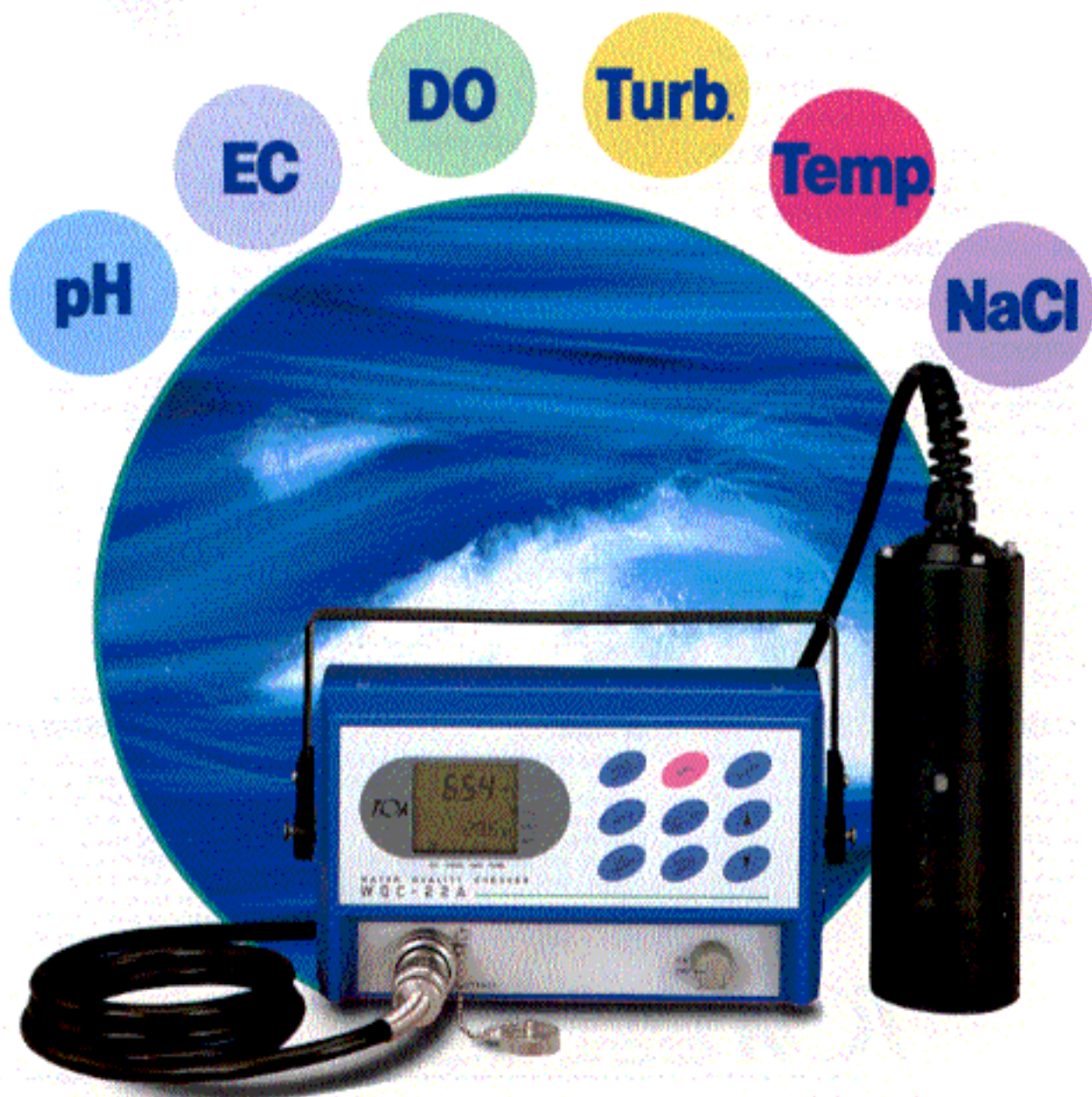


WQC-22A

WATER QUALITY CHECKER

6 measuring items with one instrument
Conductivity S/m, S/cm, Turbidity NTU, mg/L



The WQC-22A water quality checker is the most advanced, portable and multiparameter instrument which can measure water quality in teams of six basic items such as pH, conductivity, DO, turbidity, temperature and salinity.

This newly reliable checker can meet all needs in many fields of application such as river, lake, dam, culture pond, agricultural water, industrial effluent, sewage, sea water, etc.

WQC-22A WATER QUALITY CHECKER

FEATURES

Calibration with a touch of key

Calibration is easily made to press MODE SELECT and CAL. keys.

Drip proof construction

Used even in rainy day.

Salinity measurement is possible

It will be displayed from the conversion of conductivity.

New or old conductivity unit selectable

Displayed in either S/m or S/cm unit.

Wide conductivity measuring range

Two ranges enable wide measuring range

Turbidity can be read in two measuring units.

Selected from NTU (formazine) or mg/L (Kaolin)

Least significant digit (LSD) ON-OFF

The LSD of DO, pH & conductivity (low range) can be selected as to be indicated or not.

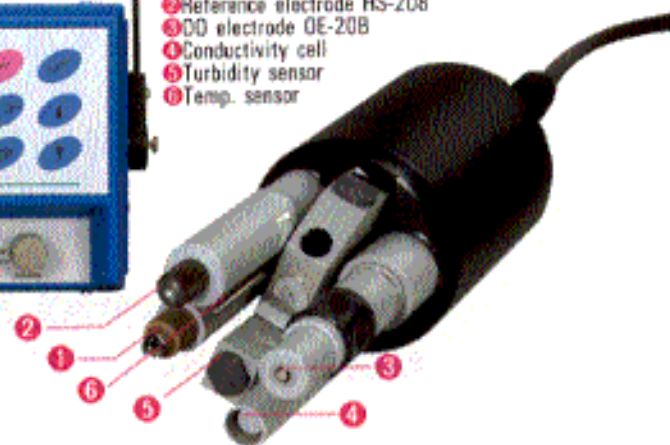
No sampling required

Sensor can be thrown into river, lake or dam. The length of sensor cable is 2m as standard.



SENSOR WMS22A

- ① Glass electrode HGS-300
- ② Reference electrode HS-20B
- ③ DO electrode OE-20B
- ④ Conductivity cell
- ⑤ Turbidity sensor
- ⑥ Temp. sensor



HIGH PERFORMANCE SOLID TYPE SENSOR

- **pH** Glass electrode method/Glass and ref. electrode are of cartridge type
- **Conductivity** AC 4-terminal method/Reliable data can be obtained in wide range.
- **DO** Galvanic cell method with pressure compensation/Cartridge type assures easy replacement.
- **Turbidity** 90° scattering light method/Intermittent emitting near-infrared light source assures reliable data without affection of water colour or outer light.
- **Temperature** Platinum RTD doubles temp. measurement and temp. compensation for some measuring items.
- **Salinity** conductivity conversion formula./Up to 4%

SPECIFICATIONS

| Measuring items | Temp. | DO | pH | Conductivity | Turbidity | Salinity*1 |
|----------------------------|--|-------------------|-------------------|--|-----------------------------|----------------------|
| Measuring method | Platinum RTD | Galvanic cell | Glass electrode | AC 4 electrodes | 90° scattering light | AC 4 electrodes |
| Measuring range | 0 to 50°C | 0 to 20mg/L | pH 0 to 14 | (Hi) 0 to 7S/m (0 to 70mS/cm) (Lo) 0 to 200mS/m (0 to 2mS/cm) | 0 to 800NTU 0 to 800mg/L | 0 to 4% |
| Resolution | LSD OFF | 0.1°C | 0.1pH | (Hi) 0.01S/m (Lo) 1mS/m | 1 NTU, mg/L | (Hi)0.01% (Lo)0.01% |
| | LSD ON | 0.1°C | 0.01pH | (Hi) 0.01S/m (Lo) 0.1mS/m | 1 NTU, mg/L | (Hi)0.01% (Lo)0.001% |
| Repeatability of Indicator | ±0.1°C ± 1 digit | ±0.1mg/L ± 1digit | ±0.02pH ± 1 digit | (Hi) FS ± 2.5% ± 1 digit (Lo) FS ± 2.5% ± 1 digit | FS ± 2% ± 1 digit | FS ± 2.5% ± 1 digit |
| Temp. Compens. range | | 0 to 40°C | 0 to 50°C | 0 to 50°C 2%/°C | | |
| Calibration | | Automatic | Automatic | | Auto zero cal.*2 | |
| Display | Liquid Crystal Display, digital method | | | | | |
| Power source | Dry battery LR14 or C size × 6 pcs. or AC adaptor (YD-12 option) | | | | | |
| Length of sensor cable | Standard 2m semi-standard: 10m | | | | | |
| Dimensions | Indicator: approx. 250(w) × 160(h) × 95(d)mm | | | | | |
| Weight | Indicator: approx. 2.2kgs sensor: approx. 1.3kgs | | | | | |

*1: Converted from conductivity value *2: Turb: manual span cal. available

STANDARD ACCESSORIES

| | | |
|-------------------------------|---|------|
| Solid type sensor WMS22A | 1 | pc. |
| pH8.88 buffer solution, 100mL | 1 | btl. |
| pH4.01 buffer solution, 100mL | 1 | btl. |
| DO electrolyte solution R-5C | 1 | btl. |
| DO cartridge membrane | 3 | pcs. |
| Dry cell LR-14 | 6 | pcs. |
| Beaker for pH | 2 | pcs. |
| Spanner | 1 | pc. |
| Shoulder belt | 1 | pc. |
| Instruction manual | 1 | copy |

OPTIONS

- Analog output (factory option): outputs 0 to 1VDC; Temp. (always), one selection among pH, DO, Cond., Turbidity
- Submersible stirrer WQ22A-STR
- AC adaptor (115 or 230V)
- Sensor with 10m.....30m cable (max. depth of water: 10m)

SPARES/CONSUMABLES

Glass electrode cartridge (HGS-300)
Reference electrode cartridge (HS-20B)
DO electrode cartridge (OE-20B)
Inner Gal for pH ref. electrode
pH standard solution pH 8.88, 500ml
pH standard solution pH 4.01, 500ml
Buffer powder pH 8.88, box of 10 bags
Buffer powder pH 4.01, box of 10 bags
Electrolyte solution for DO R-5C, 50ml
Cartridge membrane for DO, OCT-5020 (3 pcs.)



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