

HANDHELD CONDUCTIVITY METERS

Models: CM-21P/21PW

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.

Cell Constant value display

The latest cell constant can be displayed. In addition, it can be reset with standard solution and stored in built-in memory sensor "Calibration Memo". These features provide smooth operation and instrument management.

Calibration error display

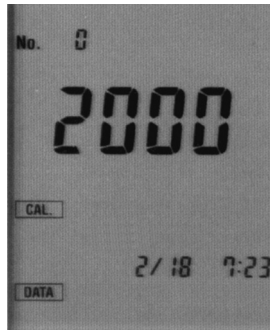
The sensor condition is automatically determined during calibration and an error code is displayed if a problem is detected. Maintenance and sensor replacement can be carried out exactly when required optimising instrument management.

Wide range of standard optional features.

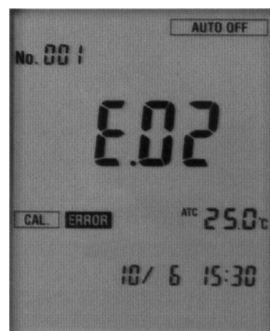
- Auto power off function on/off setting.
- Keypad lock function.
- Temperature Calibration function (single point).
- Auto-hold function for automatic stability judgement of measured value.
- Optional external printer (uses plain paper).
- Optional data acquisition software (G-LOG2) allows data to be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



Time is always displayed.



Latest calibrated update.



Error No. display.



EXPANDABLE FUNCTIONS

Function	Specifications
AC adapter	: Uses an exclusive adapter
Printer output *	: Printer output
RS-232C interface*	
Communication method	: start/stop transmission.
Baud rate	: 9,600 bps Character.
Length	: 8 bit
Parity	: None
Stop bit	: 2 Specified PC connecting cable
Analog output pH	
Cond.	: each range→ 1V.F.S.
Resist.	: each range→ 1V.F.S.
Range	: 100mV/range
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 OAA00001**
- **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 conductivity cell.
- **Carrying case ODA00001**
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**

SPECIFICATIONS

Measuring Method	: AC bipolar electrode
Display Range	: (CM-21P) 0.1mS/m~10S/m, 0.1Ω•m~10kΩ•m, salinity: 0~4.00% (CM-21PW) 5.5μS/m~19.99mS/m, 50Ω•m~182kΩ•m

Repeatability	: ±0.5%FS (each range)
Temperature	: 0~80°C
Temperature Compensation	: auto/manual
Temperature Coefficient	: 0~9.99% (CM-21P)
Calibration	: cell const. calibration
Data Storage	: 300 data
Temperature Calibration	: 1 point calibration
Auto Hold Function	: provided
Interval Function	: provided (5 sec.~99min.59sec.)
Clock Function	: provided
Power Source	: AA size dry battery x 2pcs.
RS-232C Output	: provided
Analogue Output	: provided
Water Proof	: IP67
Ambient Temperature	: 0~40°C
Dimensions	: Approx. 187.5(w) x 37.5(h) x 75(w) mm
Weight	: Approx. 310g

STANDARD ACCESSORIES

(CM-21P)		
Conductivity cell CT-27112B (lead length 1m)		1 ea.
0.1mS/m~10S/m		
(CM-21PW)		
Conductivity cell CT-27111D (lead length 1m)		1 ea.
5μS/m~20mS/m		
Flow cell, CEF-22P		1 ea.
(common part)		
AA size dry battery		2 ea.

OPTIONS

- Conductivity cell CT-27112B (lead length 5 or 11m)
- Carrying case

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CAUTION

Do not operate products before consulting instruction manual.