TECHNICAL DATA SHEET

ALab™ DPCD10 Portable pH/Conductivity/Dissolved Oxygen Meter

Portable pH, conductivity and dissolved oxygen meter · 3.5-inch TFT color display



ALab™ DPCD10 Portable pH/Conductivity/Dissolved Oxygen Meter

The ALab™ DPCD10 portable pH/conductivity/dissolved oxygen meter, front view.

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SECTION I

Product Overview

The ALab™ DPCD10 is a portable meter for pH, conductivity and dissolved oxygen with a 3.5-inch TFT color display and a new UI interface.

It stores up to 3000 groups of data, has an auto. timing datalogger, a rechargeable lithium battery with Type-C charging, and protection class IP57.

SECTION II

Core Advantages

- **Display** — 3.5-inch TFT color
- **Storage** — 3000 groups
- **Power** — Li battery, Type-C
- **Parameters** — pH, Cond, DO
- **Logger** — manual and timing
- **Protection** — IP57

SECTION III

Specifications

Technical data — DPCD10

Specifications	
Brand	ALab™ by ACS Material
Model	DPCD10
SKU #	ALDP0100
Product Type	Portable pH / conductivity / dissolved oxygen meter
Display	3.5-inch TFT color display
Functions	Auto. timing datalogger, parameter setting, data holder
Data storage	Up to 3000 groups
Protection class	IP57

Specifications

Specifications — DPCD10	
Parameter	**Specification**
pH: Measurement range	(-2.000~20.000)pH
pH: Resolution	0.1/0.01/0.001
pH: Accuracy	±0.002pH ±one digit
pH: Calibration points	1, 2, -3pts automatic
pH: ATC range	(0.0~100.0)°C/(32.0~212.0)°F
ORP: Measurement range	(-1999.9~+1999.9)mV
ORP: Resolution	0.1/1
ORP: Accuracy	±0.03%F.S ±one digit
Conductivity: Measurement range	0~2000.0mS/cm, Auto-ranging: 0~19.999µS/cm; 20.0~199.9µS/cm; 200~1999µS/cm; 2.00~19.99mS/cm; 20.00~199.9mS/cm; 200.0~2000mS/cm (K=10). Match test range: 0~200mS/cm. TDS: 0~100.0g/L (TDS factor adjustable). Resistivity: 5.000Ω·cm~100.0MΩ·cm. Salinity: 0~100ppt
Conductivity: Calibration points	one point
Conductivity: Resolution	0.001/0.01/0.1/1
Conductivity: ATC range	(0.0~50.0)°C/(32.0~122.0)°F
Conductivity: Accuracy	±0.5%F.S ±one digit
DO: Measurement range	(0.00~20.00)mg/L
DO: Accuracy	±0.30mg/L
DO: DO saturation	(0.0~200.0)%
DO: Automatic barometric pressure compensation	(0~200.0)kPa
DO: Automatic temperature compensation	(0.0~50.0)°C/(32.0~122.0)°F
DO: Manual salinity compensation	0~45ppt
Temperature: Measurement range	(0.0~100.0)°C/(32.0~212.0)°F
Temperature: Accuracy	±0.2°C
Others: Charging socket	Type-C
Others: Power supply	Rechargeable lithium battery
Others: IP Rating	IP57

Keys, display icons and interfaces	
Element	**Function**
Charging socket	Type-C
Power key	Long press to power on/off
Hold icon (data locking)	Press to start data lock/free
Save icon (manual data logger)	(No., parameter, value, temp, date and time)
Timer icon (auto. timing data logger)	(0.5, 1, 2, 3, 5, 10, 20m)
Set icon (parameter setting key)	Parameter Setting Key
View icon	View data stored (press the up and down keys to display)
Mode icon (parameter selection)	pH > mV > ORP; COND (RES/TDS/SAL) > DO (SAT)
Down key	Parameter selection
CAL key	Press to enter calibration mode
ESC key	Press to return to measurement mode
Start/Enter key	Press to confirm calibration and parameter settings
SET key	Shortcut key to start parameter setting. In the pH measurement mode, long press to change the pH resolution: 0.1/0.01/0.001
BNC socket	For pH/ORP probe
4-pin socket	For temperature/cond probe
8-pin socket	For DO probe
Silicone protective caps	Protect the sockets

Scope of delivery

— **Standard configuration**: ALab™ DPCD10 meter, pH probe 201T-H, Cond probe CON201T (K=1.0), DO probe DO01-2M-H (2 m), pH buffer and standard Cond solutions, DO membrane refill solution and sensor caps, rechargeable lithium battery (pre-installed), charging cable and hard carrying case.

— **Optional**: none listed. Specify further items separately in the quotation.

SECTION IV

Applications

Suited to portable measurement of pH, conductivity and dissolved oxygen with one meter.

Specifications are per the tables above.

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