TECHNICAL DATA SHEET

ALab™ Portable Meters

Portable pH, ORP, conductivity and dissolved oxygen meters · eight models · 3.5-inch TFT color display



ALab™ Portable Meters

Portable Meters series illustration. This document covers only the models listed in the specification and model tables. Individual units in the illustration are not identified by model number.

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SECTION I

Product Overview

The ALab™ Portable Meters offer eight portable meters for pH, ORP, conductivity and dissolved oxygen with a 3.5-inch TFT color display and a new UI interface.

All models store up to 3000 groups of data, have 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
- **Interface** — new UI
- **Models** — eight
- **Protection** — IP57

SECTION III

Specifications

Technical data — eight portable meters

Specifications	
Brand	ALab™ by ACS Material
Model	DPH10, DORP10, DEC10, DDO10, DPC10, DPD10, DCD10, DPO10
SKU #	ALECPR00
Product Type	Portable pH / ORP / conductivity / dissolved oxygen meters
Display	3.5-inch TFT color display
Data storage	Up to 3000 groups
Power supply	Rechargeable lithium battery; Type-C charging socket
Protection class	IP57

Models, specifications and included items — eight portable meters

Parameters measured by each model								
Parameter	**DPH10**	**DORP10**	**DEC10**	**DDO10**	**DPC10**	**DPD10**	**DCD10**	**DPO10**
pH, mV, ℃	Yes	–	–	–	Yes	Yes	–	Yes
mV (ORP), ℃	Yes	Yes	–	–	Yes	Yes	–	Yes
Cond., TDS, Sal., Res., ℃	–	–	Yes	–	Yes	–	Yes	–
DO, ℃	–	–	–	Yes	–	Yes	Yes	–

Specifications — Portable Meters		
Parameter	**Specification**	**Applies to**
pH: Measurement range	(-2.000~20.000)pH	DPH10, DPC10, DPD10, DPO10
pH: Resolution	0.1/0.01/0.001	DPH10, DPC10, DPD10, DPO10
pH: Accuracy	±0.002pH ±one digit	DPH10, DPC10, DPD10, DPO10
pH: Calibration points	1, 2, -3pts automatic	DPH10, DPC10, DPD10, DPO10
pH: ATC range	(0.0~100.0)℃/(32.0~212.0)℉	DPH10, DPC10, DPD10, DPO10
ORP: Measurement range	(-1999.9~+1999.9)mV	DPH10, DORP10, DPC10, DPD10, DPO10
ORP: Resolution	0.1/1	DPH10, DORP10, DPC10, DPD10, DPO10
ORP: Accuracy	±0.03%F.S ±one digit	DPH10, DORP10, DPC10, DPD10, DPO10
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	DEC10, DPC10, DCD10
Conductivity: Calibration points	one point	DEC10, DPC10, DCD10
Conductivity: Resolution	0.001/0.01/0.1/1	DEC10, DPC10, DCD10
Conductivity: ATC range	(0.0~50.0)℃/(32.0~122.0)℉	DEC10, DPC10, DCD10
Conductivity: Accuracy	±0.5%F.S ±one digit	DEC10, DPC10, DCD10
DO: Measurement range	(0.00~20.00)mg/L	DDO10, DPD10, DCD10
DO: Accuracy	±0.30mg/L	DDO10, DPD10, DCD10

Specifications — Portable Meters (continued)		
Parameter	**Specification**	**Applies to**
DO: DO saturation	(0.0~200.0)%	DDO10, DPD10, DCD10
DO: Automatic barometric pressure compensation	(0~200.0)kPa	DDO10, DPD10, DCD10
DO: Automatic temperature compensation	(0.0~50.0)°C/(32.0~122.0)°F	DDO10, DPD10, DCD10
DO: Manual salinity compensation	0~45ppt	DDO10, DPD10, DCD10
Temperature: Measurement range	(0.0~100.0)°C/(32.0~212.0)°F	All models
Temperature: Accuracy	±0.2°C	All models
Others: Charging socket	Type-C	All models
Others: Power supply	Rechargeable lithium battery	All models
Others: IP Rating	IP57	All models

Test kit — included items by model								
Item	**DPH10**	**DORP10**	**DEC10**	**DDO10**	**DPC10**	**DPD10**	**DCD10**	**DPO10**
Meter	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Plastic ATC pH probe 201T-H	Yes	–	–	–	Yes	Yes	–	Yes
Plastic ORP probe ORP301	–	Yes	–	–	–	–	–	Yes
Stainless-steel temperature probe TEMP-02H	–	Yes	–	–	–	–	–	Yes
Plastic ATC Cond probe CON201T, K=1.0	–	–	Yes	–	Yes	–	Yes	–
Polarographic DO probe DO01-2M-H, cable length: 2m	–	–	–	Yes	–	Yes	Yes	–
pH buffer solution: pH4.00/7.00/10.01, 50mL, one for each	Yes	–	–	–	Yes	Yes	–	Yes
Standard ORP solution: 222mV, 50mL, 1btl	–	Yes	–	–	–	–	–	Yes
Standard Cond solution: 84µS/1413µS/12.88mS/cm, 50mL, one for each	–	–	Yes	–	Yes	–	Yes	–
Membrane refill solution: DOS-01, 30mL, 1btl	–	–	–	Yes	–	Yes	Yes	–
Membrane sensor caps DOSC: 3pcs/group, 1pkg	–	–	–	Yes	–	Yes	Yes	–
Rechargeable lithium battery (pre-installed)	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Charging cable	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Hard carrying case (L/W/H: 33.0×27.2×8.2cm)	Yes	Yes	Yes	Yes	–	–	–	–
Hard carrying case (L/W/H: 36.0×32.0×9.0cm)	–	–	–	–	Yes	Yes	Yes	Yes

Scope of delivery

— **Standard configuration**: one ALab™ portable meter of the selected model with the items marked for that model in the Included items table.

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

SECTION IV

Applications

Suited to portable measurement of pH, ORP, conductivity and dissolved oxygen with a 3.5-inch TFT color display and 3000 stored groups of data.

Select the model before ordering.

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