TECHNICAL DATA SHEET

ALab™ Benchtop Meters — Classical Series

Benchtop pH, conductivity and dissolved oxygen meters · seven models · 7-inch display



ALab™ Benchtop Meters — Classical Series

The ALab™ Classical Series benchtop meters. Series photo shown for reference.

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SECTION I

Product Overview

The ALab™ Classical Series offers seven benchtop meters for pH, conductivity and dissolved oxygen with a high-res 7-inch display and automatic calibration.

All models store 450 readings, export data to a flash disk or a wireless printer (optional) and have protection class IP54.

SECTION II

Core Advantages

- **Display** — 7-inch, high-res
- **Storage** — 450 readings
- **Models** — seven
- **Calibration** — automatic, ATC
- **Export** — flash disk / printer
- **Protection** — IP54

SECTION III

Specifications

Technical data — seven benchtop pH, conductivity and dissolved oxygen meters

Specifications	
Brand	ALab™ by ACS Material
Model	DPH100, DEC100, DDO100, DPC100, DPD100, DCD100, DPCD100
SKU #	ALECBC00
Product Type	Benchtop pH / conductivity / dissolved oxygen meters
Display	High-res 7-inch display screen with white backlight
Calibration	Automatic calibration; ATC measurement
Data storage	450 readings
Data export	Flash disk / wireless printer (the printer is optional)
Power supply	DC12V
Protection class	IP54

Models, specifications and included items — seven benchtop meters

Parameters measured by each model							
Parameter	**DPH100**	**DEC100**	**DDO100**	**DPC100**	**DPD100**	**DCD100**	**DPCD100**
pH, mV, ℃	Yes	–	–	Yes	Yes	–	Yes
mV (ORP), ℃	Yes	–	–	Yes	Yes	–	Yes
Cond., TDS, Sal., Res., ℃	–	Yes	–	Yes	–	Yes	Yes
DO, ℃	–	–	Yes	–	Yes	Yes	Yes

Specifications — Classical Series		
Parameter	**Specification**	**Applies to**
pH: Measurement range	(-2.00~20.00)pH	DPH100, DPC100, DPD100, DPCD100
pH: Resolution	0.1/0.01	DPH100, DPC100, DPD100, DPCD100
pH: Accuracy	±0.01pH ±one digit	DPH100, DPC100, DPD100, DPCD100
pH: Calibration points	1, 2, -3pts automatic	DPH100, DPC100, DPD100, DPCD100
pH: ATC range	(0.0~100.0)℃/(32.0~212.0)°F	DPH100, DPC100, DPD100, DPCD100
ORP: Measurement range	(-1999.9~+1999.9)mV	DPH100, DPC100, DPD100, DPCD100
ORP: Resolution	0.1/1	DPH100, DPC100, DPD100, DPCD100
ORP: Accuracy	±0.1%F.S ±one digit	DPH100, DPC100, DPD100, DPCD100
Conductivity: Measurement range	0~200.0mS/cm, Auto-ranging: 0~19.99μS/cm; 20.0~199.9μS/cm; 200~1999μS/cm; 2.00~19.99mS/cm; 20.00~199.9mS/cm. TDS: 0~100.0g/L. Resistivity: 5.00Ω·cm~100.0MΩ·cm. Salinity: 0~100ppt	DEC100, DPC100, DCD100, DPCD100
Conductivity: Calibration points	one point	DEC100, DPC100, DCD100, DPCD100
Conductivity: Resolution	0.001	DEC100, DPC100, DCD100, DPCD100
Conductivity: ATC range	(0.0~50.0)℃/(32.0~122.0)°F	DEC100, DPC100, DCD100, DPCD100
Conductivity: Accuracy	±1.0% F.S ±one digit	DEC100, DPC100, DCD100, DPCD100
DO: Measurement range	(0.00~20.00)mg/L	DDO100, DPD100, DCD100, DPCD100
DO: Accuracy	±0.30 mg/L	DDO100, DPD100, DCD100, DPCD100

Specifications — Classical Series (continued)		
Parameter	**Specification**	**Applies to**
DO: DO saturation	(0.0~200.0)%	DDO100, DPD100, DCD100, DPCD100
DO: Automatic barometric pressure compensation	(0~200.0)kPa	DDO100, DPD100, DCD100, DPCD100
DO: Automatic temperature compensation	(0.0~50.0)°C/(32.0~122.0)°F	DDO100, DPD100, DCD100, DPCD100
DO: Manual salinity compensation	0~45ppt	DDO100, DPD100, DCD100, DPCD100
Temperature: Measurement range	(0.0~100.0)°C/(32.0~212.0)°F	All models
Temperature: Accuracy	±0.2°C	All models
Others: Data export	Flash disk/Printer	All models
Others: Power supply	DC12V	All models

Test kit — included items by model							
Item	**DPH100**	**DEC100**	**DDO100**	**DPC100**	**DPD100**	**DCD100**	**DPCD100**
Meter	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Plastic ATC pH probe 201T	Yes	–	–	Yes	Yes	–	Yes
Plastic ATC Cond probe CON201T, K=1.0	–	Yes	–	Yes	–	Yes	Yes
Polarographic DO probe DO01-2M, cable length: 2m	–	–	Yes	–	Yes	Yes	Yes
pH buffer solution: pH4.00/7.00/10.01, 50mL, one for each	Yes	–	–	Yes	Yes	–	Yes
Standard Cond solution: 84µS/1413µS/12.88mS/cm, 50mL, one for each	–	Yes	–	Yes	–	Yes	Yes
Membrane refill solution: DOS-01, 30mL, 1btl	–	–	Yes	–	Yes	Yes	Yes
Membrane sensor caps DOSC: 3pcs/group, 1pkg	–	–	Yes	–	Yes	Yes	Yes
Power adaptor: 1pc	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Flexible probe holder F01: 1pc	Yes	Yes	Yes	Yes	Yes	Yes	Yes

Scope of delivery

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

— **Optional**: the wireless printer. Specify further items separately in the quotation. The TDS lists the product specifications, not the standard packing list.

SECTION IV

Applications

Suited to benchtop measurement of pH, conductivity and dissolved oxygen with automatic calibration, ATC measurement and 450 stored readings.

Select the model before ordering.

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