TECHNICAL DATA SHEET

ALab™ Benchtop Meters — Touchscreen Series

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



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

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SECTION I

Product Overview

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

All models store 500 readings per parameter, export data to a flash disk, a PC or a wireless printer (optional) and have protection class IP54.

SECTION II

Core Advantages

- **Display** — 7-inch touch screen
- **Storage** — 500 readings/parameter
- **Models** — seven
- **Functions** — automatic calibration, timing logger
- **Export** — flash disk / PC / printer
- **Protection** — IP54

SECTION III

Specifications

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

Specifications	
Brand	ALab™ by ACS Material
Model	DPH100T, DEC100T, DDO100T, DPC100T, DPD100T, DCD100T, DPCD100T
SKU #	ALECBT00
Product Type	Benchtop touchscreen pH / conductivity / dissolved oxygen meters
Display	High-res 7-inch touch screen
Simultaneous display	pH / conductivity / dissolved oxygen simultaneously: DPCD100T
Functions	Automatic calibration, automatic temperature compensation, timing data logger, parameter setup
pH calibration	1 to 5-point calibration for pH mode
Data storage	500 readings/parameter
Data export	Flash disk / PC / wireless printer (the printer is optional)
Power supply	DC12V
Protection class	IP54

Models, specifications and included items — seven touchscreen benchtop meters

Parameters measured by each model							
Parameter	**DPH100T**	**DEC100T**	**DDO100T**	**DPC100T**	**DPD100T**	**DCD100T**	**DPCD100T**
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 — Touchscreen Series		
Parameter	**Specification**	**Applies to**
pH: Measurement range	(-2.000~20.000)pH	DPH100T, DPC100T, DPD100T, DPCD100T
pH: Resolution	0.01/0.001	DPH100T, DPC100T, DPD100T, DPCD100T
pH: Accuracy	±0.002pH ±one digit	DPH100T, DPC100T, DPD100T, DPCD100T
pH: Calibration points	1, 2, -5 pts automatic	DPH100T, DPC100T, DPD100T, DPCD100T
pH: ATC range	(0.0~100.0)℃/(32.0~212.0)℉	DPH100T, DPC100T, DPD100T, DPCD100T
ORP: Measurement range	(-1999.9~+1999.9)mV	DPH100T, DPC100T, DPD100T, DPCD100T
ORP: Resolution	0.1/1	DPH100T, DPC100T, DPD100T, DPCD100T
ORP: Accuracy	±0.03%F.S ±one digit	DPH100T, DPC100T, DPD100T, DPCD100T

Specifications — Touchscreen Series (continued)		
Parameter	**Specification**	**Applies to**
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	DEC100T, DPC100T, DCD100T, DPCD100T
Conductivity: Calibration points	one point	DEC100T, DPC100T, DCD100T, DPCD100T
Conductivity: Resolution	0.001	DEC100T, DPC100T, DCD100T, DPCD100T
Conductivity: ATC range	(0.0~50.0)°C/(32.0~122.0)°F	DEC100T, DPC100T, DCD100T, DPCD100T
Conductivity: Accuracy	±0.5 % F.S ±one digit	DEC100T, DPC100T, DCD100T, DPCD100T
DO: Measurement range	(0.00~20.00)mg/L	DDO100T, DPD100T, DCD100T, DPCD100T
DO: Accuracy	±0.30 mg/L	DDO100T, DPD100T, DCD100T, DPCD100T
DO: DO saturation	(0.0~200.0)%	DDO100T, DPD100T, DCD100T, DPCD100T
DO: Automatic barometric pressure compensation	(0~200.0)kPa	DDO100T, DPD100T, DCD100T, DPCD100T
DO: Automatic temperature compensation	(0.0~50.0)°C/(32.0~122.0)°F	DDO100T, DPD100T, DCD100T, DPCD100T
DO: Manual salinity compensation	0~45ppt	DDO100T, DPD100T, DCD100T, DPCD100T
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/PC/Printer	All models
Others: Power supply	DC12V	All models

Test kit — included items by model							
Item	**DPH100T**	**DEC100T**	**DDO100T**	**DPC100T**	**DPD100T**	**DCD100T**	**DPCD100T**
Meter	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Glass refillable combination pH probe 201G	Yes	–	–	Yes	Yes	–	Yes
Stainless-steel temperature probe TEMP-01	Yes	–	–	Yes	Yes	–	Yes
Glass ATC conductivity probe CON201TG, K=1.0	–	Yes	–	Yes	–	Yes	Yes
Polarographic DO probe DO01-2M	–	–	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
PC cable: 1pc	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Flexible probe holder F01: 1pc	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Magnetic stirrer: 1pc	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Power adaptor	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, temperature compensation and 500 stored readings per parameter.

Select the model before ordering.

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