

600L Series Benchtop Meters



Large color touch screen
Easy operation and comfortable experience



Modular design
Four channels, flexible configuration

GENERAL FEATURES

- Color High contrast LCD touchscreen, 7.0 inches.
- Intelligent operation system provides features including user management, calibration management, electrode management, method management, data management and etc.
- Multi-reading feature allows auto-read, timed-read and continuous-read.
- Automatic/Manual temperature compensation ensures accurate results.
- Auto-hold feature senses and locks the measurement endpoint.
- Data capacity of up to 1000 sets for each parameter (GLP-compliant).
- Data analysis feature helps user review, compare and recalculate results.
- Data can be transferred to PC or printer by USB or RS-232 communication interfaces.
- Automation measurement.

M600L Benchtop Multi-parameter Analyzer

The multi-channel instrument allows measurements of 1, 2, 3 or 4 parameters simultaneously, either in the same or in different samples.

- Four measurement channels can be configured in any combination.
- Support for three modules, namely pH/ISE module, conductivity module and dissolved oxygen module.
- Select from three modules to customize the four channels your way.

pH module / PH600L

- 1-6 points calibration with auto-buffer recognition.
- Selectable pH buffer groups, including NIST, DIN, GB.
- User-defined pH buffer or buffer group is supported.
- Automatic electrode diagnosis with pH slope and offset display.

Conductivity module / EC600L

- 1-5 points calibration automatically recognizes the standard solutions.
- Settable parameters, including cell constant, reference temperature (5/10/15/18/20/ 25°C), temperature compensation coefficient and TDS factor.
- Temperature compensation type (none, linear, pure water).

ISE module / I600L

- 1-6 points calibration.
- Selectable measurement unit, including $\mu\text{g/L}$, mg/L , g/L , mmol/L , pX , etc.
- Multi-measurement modes are supported, including Direct Reading mode, Standard Addition mode, Sample Addition mode and GRAN mode.
- Over 10 methods are built-in, including F^- , Cl^- , Br^- , I^- , NO_3^- , BF_4^- , NH_4^+ , K^+ , Na^+ , Ca^{2+} , Cu^{2+} , Pb^{2+} , Ag^+ and etc.; user-defined method is supported.

DO module / DO600L

- 1 or 2 points calibration using the air-saturated water or zero oxygen solution.
- Automatic/Manual barometric pressure compensation.
- Manual Salinity Factor Correction.

Model	M600L	PH600L	EC600L	I600L	DO600L	
Parameters (up to 12)	pH/EC/ISE/DO/Temp. (mV/ORP/pX/Resistivity/TDS/Sal./DO Saturation)	pH/Temp. (mV)	EC/Temp. (Resistivity/TDS/Sal.)	pH/ISE/Temp. (mV/ORP/pX)	DO/Temp. (DO Saturation)	
pH	Range	-2.000 to 20.000 pH	•	/	•	/
	Resolution	0.1, 0.01, 0.001pH	•	/	•	/
	Accuracy	±0.002 pH	•	/	•	/
	Calibration Points	Up to 6	•	/	•	/
	Standard Customization	Yes	•	/	•	/
	Calibration Reminder	Yes	•	/	•	/
	Standard Recognition	NIST, GB, DIN buffers	•	/	•	/
	Slope Limit	Yes	•	/	•	/
mV/ORP	Range	-2000.00 to 2000.00 mV	•	/	•	/
	Resolution	0.1, 0.01 mV	•	/	•	/
	Accuracy	±0.1 mV or ±0.03 %	•	/	•	/
	EH ORP Mode	Yes	/	/	•	/
	ORP Calibration Points	1~2 custom point (relative mV)	/	/	•	/
pX	Range	-2.000 to 20.000 pX	/	/	•	/
	Resolution	0.1, 0.01, 0.001 pX	/	/	•	/
	Accuracy	±0.002 pX	/	/	•	/
	Calibration Points	Up to 6	/	/	•	/
ISE	Range	0~19990	/	/	•	/
	Units	mol/L, mmol/L, g/L, mg/L, µg/L	/	/	•	/
	Resolution	Up to 4 significant digits	/	/	•	/
	Accuracy	±0.3 %	/	/	•	/
	Calibration Points	Up to 6	/	/	•	/
Conductivity	Range	0.000 µS/cm to 3000 mS/cm	/	•	/	/
	Resolution	0.001 µS/cm minimum; changed with range	/	•	/	/
	Accuracy	±0.5 % FS	/	•	/	/
	Reference Temperature	5, 10, 15, 18, 20, 25 °C	/	•	/	/
	Calibration Points	Up to 5	/	•	/	/
	Calibration Reminder	No	/	•	/	/
	Standard Recognition	146.5µS/cm, 1408µS/cm, 12.85mS/cm, 111.3mS/cm	/	•	/	/
Resistivity	Range	5.00 Ω·cm ~ 100.00 MΩ·cm	/	•	/	/
	Resolution	0.01 Ω·cm minimum;	/	•	/	/
	Accuracy	±0.5 % FS	/	•	/	/
TDS	Range	0.000 mg/L ~ 1000 g/L	/	•	/	/
	Resolution	0.001ppm minimum; changed with range	/	•	/	/
	Accuracy	±0.5%	/	•	/	/
Salinity	Type	NaCl%	/	•	/	/
	Range	(0.00 ~ 8.00)%	/	•	/	/
	Resolution	0.01%	/	•	/	/
	Accuracy	±0.1%	/	•	/	/
Dissolved Oxygen Concentration	Sensor Type	Polarographic	/	/	/	•
	Range	0.00 to 99.99 mg/L	/	/	/	•
	Resolution	0.01 mg/L	/	/	/	•
	Accuracy	±0.1 mg/L	/	/	/	•
	Calibration Reminder	Yes	/	/	Yes	•
	Calibration Points	Air-saturated water or zero point	/	/	/	•
	Barometric Compensation	Yes	/	/	/	•
	Manual Salinity Factor Correction	Yes	/	/	/	•
% Saturation	Range	(0.0 to 600)%	/	/	/	•
	Resolution	0.10%	/	/	/	•
	Accuracy	±10.0 %	/	/	/	•
Temperature	Range	-5 to 130 °C	•	•	•	•
	Unit	°C	•	•	•	•
	Resolution	0.1	•	•	•	•
	Accuracy	±0.1	•	•	•	•
Measurement	Reading Mode	Auto Read(Fast, Medium, Slow), Timed, Continuous	•	•	•	•
	Reading Prompts	Reading, Stable, Locked	•	•	•	•
	Temp. Compensation	ATC, MTC	•	•	•	•
Data Management	Data Storage	1000 Groups	•	•	•	•
	GLP Features	Yes	•	•	•	•
	Log Management	Yes	•	•	•	•
Inputs	pH Electrode	BNC(Q9)	•	/	•	/
	Temp./DO Probe	6-pin MiniDIN	•	•	•	•
	Temp./EC. Probe	8-pin MiniDIN	/	•	/	/
Outputs	USB, RS 232	USB 2.0 flash memory device, printer, PC	•	•	•	•
	Backlight	Yes	•	•	•	•
Display Options	Auto Shut-down	1~60 min, off	•	•	•	•
	IP Rating	IP54	•	•	•	•
	Date and Time	Yes	•	•	•	•
General	Power	AC Adapter, 100-240 VAC input, DC24V output	•	•	•	•
	Dimensions	280×280×130 mm	•	•	•	•
	Weight	2500g (5.51 lb)	•	•	•	•

• INCLUDED, / NONE