

M600L Multi-parameter Analyzer

Features

- Color High contrast LCD touchscreen, 7.0 inches.
- Intelligent operation system provides features including user management, calibration 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.
- Data Storage 1000 sets for each parameter (GLP-compliant).
- Data analysis feature helps user review, compare and recalculate results.
- Support for USB or RS-232 communication.
- Reset feature automatically resumes all settings back to factory default options.
- IP54 waterproof.
- 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.
- Four channels can be configured in any combination.

pH

1. 1-6 points calibration with Standard Recognition.
2. Selectable pH buffer groups, including NIST, DIN, GB.
3. Support for pH standard group customization.
4. Automatic electrode diagnosis with pH slope and offset display.

Ion

1. 1-6 points calibration
2. Selectable measurement unit, including $\mu\text{g/L}$, mg/L , g/L , mmol/L , pX , etc.
3. Multi-measurement modes are supported, including Direct Reading mode, Standard Addition mode, Sample Addition mode and GRAN mode.
4. 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.

Conductivity

1. 1-5 points calibration with Standard Recognition.
2. Settable parameters, including cell constant, reference temperature (5/10/15/18/20/25°C), temperature compensation coefficient and TDS factor.
3. Temperature compensation type (none, linear, pure water).

DO

1. Support for air-saturated water or zero oxygen calibration.
2. Auto barometric pressure compensation.
3. Manual Salinity Factor Correction.
4. Selectable pressure unit, including kPa, mbar, Torr, Atm.

Includes

1. E-201-E pH composite electrode
2. PF-202-L Fluoride ion selective electrode
3. DJS-1-LEC electrode
4. T-818-L Temperature probe
5. DO-958-L DO electrode
6. NIST pH standard solution(4.01, 7.00, 10.01) , 50ml/vial
7. 1413 $\mu\text{S/cm}$ EC standard solution, 50ml, 1 vial
8. REX-3 electrode stand
9. Touch pen



Specifications

Model	M600L	
Parameters	pH/EC/ISE/DO/Temp. (mV/ORP/pX/Resistivity/TDS/Sal./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	±0.03%FS
	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	1.000e-9 to 9.999e+9
	Units	mol/L, mmol/L, g/L, mg/L, pg/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, various with range selection
	Accuracy	±0.5% FS
	Reference Temperature	5, 10, 15, 18, 20, 25 °C
	Calibration Points	Up to 5
	Standard Recognition	146.5μS/cm, 1408μS/cm, 12.85mS/cm, 111.3mS/cm
Resistivity	Range	5.00 Ω·cm~100.0 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% FS
Salinity	Type	NaCl%
	Range	(0.00~8.00)%
	Resolution	0.01%
	Accuracy	±0.1%
Dissolved	Range	0.00 to 99.99 mg/L
Oxygen Concentration - Polarographic	Resolution	0.01 mg/L
	Accuracy	±0.1 mg/L
	Calibration Reminder	Yes
	Calibration Points	Air-saturated water or zero point
	Barometric Compensation	Yes
	Manual Salinity Factor Correction	Yes
% Saturation -Polarographic	Range	(0.0 to 600)%
	Resolution	0.10%
	Accuracy	±2.0%

Temperature	Range	-5 to 130 °C
	Unit	°C
	Resolution	0.1°C
	Accuracy	±0.1°C
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)
	DO with Temp. Probe	6-pin Mini-DIN
	Conductivity with Temp. Probe	8-pin Mini-DIN
Outputs	USB, RS 232	USB 2.0 flash memory device, printer, PC
Display options	Backlight	Yes
	Auto Shutdown	1~60 min, off
	IP Rating	IP54
	Date and Time	Yes
General	Power	AC Adapter, 100-240V AC input, DC24V output
	Dimensions	280×280×130 mm
	Weight	2500g (5.51 lb)
	Dimensions (Carton)	370×305×330 mm
	Weight (Gross)	4 kg