

M600L Multi-parameter Analyzer



Large color touch screen
Simple Operation, Comfortable Experience



Modular design
Four channels, flexible configuration



GENERAL FEATURES

- Color High contrast LCD touchscreen, 7.0 inches.
- Temperature Unit Options: Choose between °C or °F.
- Reset feature automatically resumes all settings back to factory default options.
- IP54 waterproof.

Professional - Moldable, Multi-channel

- Modular four Channel: Four measurements channels can be configured in any combination of the modules.
- Support for 6 modules: pH module, pX module, EC-T module, EC-F module, DO-F module, DO-P module.
- The multi-channel allows measurements of 1, 2, 3, or 4 parameters simultaneously, either in the same or in different samples.
- According to the module, the parameters can be pH, mV, EC, Resistivity, TDS, Sal., ISE, pX, DO, DO Saturation and Temp.

Smart operation, Auto-recognition, High throughput

- Intelligent operating system, with user management, method management, method management, sample management, electrode management, data management, GMP management and other functions.
- User three-level authority management and password management.
- Method management function, built-in methods and custom measurement methods.
- Multi-reading feature allows auto-read, timed-read and continuous-read.
- Support calibration reminder and forced calibration function
- Support standard liquid check and mandatory check function
- Calibration and measurement alarm limit setting.
- Connection with automatic sampler to realize the automatic measurement and batch detection of samples.

Data management, Audit trial

- Data Storage 1000 sets for each parameter (GLP-compliant).
- Support for GMP management, the GMP logs achieve the tracking and analysis of the the data.
- Support for RS-232 communication for print and the print format can be alternate.
- Support for USB communication for PC software.
- Support for U disk for method export and import.
- Support for U disk for data export with CSV or PDF format.
- Support for barcode scanner.

pH module

- It shows the mV, pH and ORP
- NIST, USA, MERK GB, DIN, or JIS pH buffers standard recognition.
- Data storage of 1000 sets of pH measurement results, 100 sets of calibration data, and 1000 sets of pH standard solution verification data.

pX module

- It shows the mV, pH, pX, ORP and ion concentration.
- Selectable measurement unit, including µg/L, mg/L, g/L, mmol/L, pX, ppm, ppb, 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⁻, NO₃⁻, BF₄⁻, NH₄⁺, K⁺, Na⁺, Ca²⁺, Cu²⁺, Pb²⁺, Ag⁺ and etc., user-defined method is supported.
- NIST, USA, MERK GB, DIN, or JIS pH buffers standard recognition.
- 1 point ORP calibration.
- NIST, USA, MERK GB, DIN, or JIS pH buffers standard recognition.
- Data storage of 1000 sets of pH/ORP/Ion measurement results, 100 sets of calibration data, and 1000 sets of pH standard solution verification data.

EC-T module

- It shows conductivity, Resistivity, TDS, Salinity and Ash.
- 1-5 points calibration with GB and International standard recognition .
- Temperature compensation type (none, linear, pure water).
- Settable parameters, including cell constant, reference temperature (5/10/15/18/20/25°C), temperature compensation coefficient and TDS factor.
- Data storage of 1000 sets of EC/Resistivity/TDS/Salinity/Ash measurement results, 100 sets of calibration data, and 1000 sets of EC standard solution verification data.

DO-F module

- Support for air-saturated water or zero oxygen calibration.
- Auto barometric pressure compensation.
- Manual Salinity Factor Correction.
- Selectable pressure unit, including kPa, mbar, Torr, Atm.
- Data storage of 1000 sets of DO/Saturation measurement results, 100 sets of calibration data, and 1000 sets of Zero DO and Full DO verification data.

Model		M600L	
Parameters		pH/EC/ISE/DO/Temp. (mV/ORP/pX/Resistivity/TDS/Sal./DO Saturation)	
Module		pX module	pH module
mV	Range	(-2000.00~2000.00)mV	•
	Resolution	0.01mV	•
	Accuracy	±0.03% 或 ±0.1mV	•
pH	Range	(-2.000~20.000)pH	•
	Resolution	0.001pH	•
	Accuracy	±0.002pH	•
pX	Range	(-2.000~20.000)pX	/
	Resolution	0.001pX	/
	Accuracy	±0.002pX	/
Ion Concntration	Range	(1.000e-9~9.999e+9), Unit: mol/L, mmol/L, g/L, mg/L, µg/L, ppm, ppb	/
	Resolution	Up to 4 significant digits	/
	Accuracy	±0.3%	/
Temperature	Range	(-10.0~135.0)°C /(14.0~275.0) °F	•
	Resolution	0.1 °C /0.1 °F	•
	Accuracy	±0.3°C (0.0°C ~60.0°C); ±1.0 °C (Other Range)	•
Module		EC-T module	EC-F module
Conductivity	Range	0.000µS/cm~3000mS/cm	50.0 µS/cm~3000mS/cm
	Resolution	0.001µS/cm minimum, various with range selection	0.001µS/cm minimum, various with range selection
	Accuracy	±0.5% FS	±1.5% FS
Resistivity	Range	5.00Ω·cm~100.0MΩ·cm	5.00Ω·cm~20.0kΩ·cm
	Resolution	0.01Ω·cm minimum, various with range selection	0.01Ω·cm minimum, various with range selection
	Accuracy	±0.5% FS	±1.5% FS
TDS	Range	0.000 ppm~1000ppt	25.0 ppm~1000 ppt
	Resolution	0.001ppm minimum, various with range selection	0.001ppm minimum, various with range selection
	Accuracy	±0.5% FS	±1.5% FS
Salinity	Range	(0.00~8.00)%	0.0~80.0 ppt
	Resolution	0.01%	0.1ppt
	Accuracy	±0.1%	±2ppt
Temperature	Range	(-10.0~135.0)°C /(14.0~275.0) °F	(-10.0~135.0)°C /(14.0~275.0) °F
	Resolution	0.1 °C /0.1 °F	0.1 °C /0.1 °F
	Accuracy	±0.3°C (0.0°C ~60.0°C); ±1.0 °C (Other Range)	±0.5°C (0.0°C ~60.0°C);±1.5 °C (Other Range)
Module		DO-F module	DO-P module
Dissolved Oxygen Concentration	Range	(0.00~20.00)ppm	(0.00~99.99) ppm
	Resolution	0.01ppm	•
	Repeatability	0.15ppm	•
	Zero Accuracy	≤0.1ppm	•
	Accuracy	/	±0.10ppm, (0.00~50.00)ppm ±0.50ppm, (50.0~99.99)ppm
	Instrument Accuracy	±0.30 ppm	≤20.00ppm: ±0.30 ppm > 20.00ppm: ±10.0%
	Response time	≤60s(20°C , up to 90% response)	≤45s(20°C up to 90% response)
	Salinity Accuracy	±2%	•
Saturation	Range	(0.0~200.0)%	(0.0~600.0)%
	Resolution	0.10%	•
	Accuracy	±10.0%	•
Temperature	Range	(0.0~50.0) °C /(32.0~122.0) °F	(-10.0~135.0)°C /(14.0~275.0) °F
	Resolution	0.1 °C /0.1 °F	•
	Accuracy	±0.3°C (0~50°C)	±0.3°C (0.0~60.0°C);±1.0 °C (Other Range)
Environment		Temperature: (0~40) °C Relative Humidity: ≤85%	
Power		AC Adapter, 100-240V AC input, DC20V output	
Dimensions, Weight		240×310×98mm, about 2.0kg	