M510T Multi-parameter Analyzer

Features

● Color High contrast LCD touchscreen, 4.3 inches.

● Intelligent operation system provides features including user management, calibration management, electrode management, method management, data management, Log 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 Storage 1000 sets for each parameter (GLP-compliant).

● Data analysis feature helps user review, compare and recalculate results.

● Support for USB communication.

● Auto-power off feature effectively extends the battery service life.

● Reset feature automatically resumes all settings back to factory default options.

● IP65 waterproof. The portable meter is suitable for fields measurements and out door measurements.

pH

1. 1-8 points calibration with Standard Recognition.

2. Selectable pH buffer groups, including USA, NIST, DIN, GB, MERK, JIS.

3. User-defined pH buffer or buffer group is supported.

4. Automatic electrode diagnosis with pH slope and offset display.

Ion

1. 1-6 points calibration.

2. Selectable measurement unit, including μg/L, mg/L, g/L, mmol/L, pX, ppm, ppb, 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 automatically recognizes the standard solutions.

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-301-QC 3 in 1 pH composite electrode

2. DJS-1VTC EC electrode

3. DO-958-Q polarographic DO electrode

4. NIST pH standard solution(4.01, 7.00, 10.01) , 50ml/vial

5. Electrode holder

6. Silicone rubber case

7. Wristbands   8. Touch pen   9. Carrying case

Specifications

Model		M510T
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 8
	Standard Customization	Yes
	Calibration Reminder	Yes
	Standard Recognition	USA, NIST, MERK, JIS, GB and 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 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, ppm, ppb
	Resolution	Up to 4 significant digits
	Accuracy	±0.3%
	Calibration Points	Up to 8
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
	Calibration Reminder	Yes
	Standard Recognition	10μS/cm, 84μS/cm, 500μS/cm, 1413μS/cm, 12.88mS/cm; 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 ppm~1000 ppt
	Resolution	0.001ppm minimum, changed with range
	Accuracy	±0.5% FS
Salinity	Range	0.0　80.0 ppt
	Resolution	0.1ppt
	Accuracy	±1ppt
Dissolved Oxygen Concentration	Sensor Type	Polarographic
	Range	0.00 to 99.99 ppm
	Resolution	0.01 ppm
	Accuracy	±0.10 ppm
	Calibration Reminder	Yes
	Calibration Points	Air-saturated water or zero point
	Barometric Compensation	Yes
	Manual Salinity Factor Correction	Yes

Saturation	**Range**	(0.0 to 600.0)%
	Resolution	0.10%
	Accuracy	±2.0%
Temperature	**Range**	-10 to 135 °C, 14 to 275 °F
	Unit	°C, °F
	Resolution	0.1
	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
Inputs	**pH Electrode**	BNC(Q9)
	DO with Temp. Probe	4-pin aviation connector
	Conductivity with Temp. Probe	5-pin aviation connector
Outputs	**USB**	USB 2.0 flash memory device, PC, scanner
Display options	**Backlight**	Yes
	Auto Shutdown	300, 600, 1200, 1800, 3600 sec., off
	IP Rating	IP65
	Date and Time	Yes
General	**Power**	Rechargeable Lithium battery, AC Adapter, 100-240V AC input, DC5V output
	Dimensions	90×255×40 mm
	Weight	500g (1.1 lb)
	Dimensions (Carton)	490×410×220 mm
	Weight (Gross)	5.5 kg