M500T 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.

● 1P54 waterproof.

pH

1. 1-6 points calibration with Standard Recognition.

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

3. Support for pH standard group customization.

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 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-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. 1413μS/cm EC standard solution, 50ml, 1 vial

6. REX-6 electrode stand

7. Touch pen

Specifications

Model		M500T
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, USA, MERK, JIS buffers
	Slope Uimit	Yes
mV/ORP	Range	-2000.00 to 2000.00 mV
	Resolution	0.1, 0.01 mV
	Accuracy	±0.1 mV or ±0.03% of reading whichever is greater
	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/U, mg/U, pg/L, ppm, ppb
	Resolution	Up to 4 significant digits
	Accuracy	±0.3%
	Calibration Points	Up to 6
Conductivity	Range	0.000 μS/cm to 2000 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	10 μS/cm, 84 μS/cm, 500 μS/cm, 1413 μS/cm, 12.88 mS/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	0.000~1000 ppt
	Resolution	0.001 ppm minimum, changed with range
	Accuracy	±0.5% FS
Salinity	Type	NaCl
	Range	0.0 80.0 ppt
	Resolution	0.1ppt
	Accuracy	±1ppt
Dissolved Oxygen Concentration - 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 - Polarographic	Range	(0.0 to 600)%
	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
	Log Management	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,
	RS 232	printer, auto-sampler
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	220x195x68 mm
	Weight	950g (2.09 lb)
	Dimensions (Carton)	370x305x330 mm
	Weight (Gross)	5.5 kg