

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.

pН

- 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-, NO₃-, BF₄-, NH₄+, K+, Na+, Ca²⁺, Cu²⁺, Pb²⁺, 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 $(5/10/15/18/20/25^{\circ}C)$, temperature compensation coefficient and TDS factor.
- 3. Temperature compensation type (none, linear, pure water).

<u>DO</u>

- 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. 1413 µS/cm EC standard solution, 50ml, 1 vial
- 6. REX-6 electrode stand
- 7. Touch pen





Specifications

Model		M500T
Parameters	4	pH/EC/ISE/DO/Temp. (mV/ORP/pX/Resistivity/TDS/Sal./DO Saturation
	Range	-2.000 to 20.000 pH
рН	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
	Range	-2000.00 to 2000.00 mV
···V/ODD	Resolution	0.1, 0.01 mV
mV/ORP	Accuracy	±0.1 mV or ±0.03% of reading whichever is greater
	EH ORP Mode	Yes
	ORP Calibration Points	1 custom point (relative mV)
	Range	-2.000 to 20.000 pX
*7	Resolution	0.1, 0.01, 0.001 pX
pX	Accuracy	±0.002 pX
	Calibration Points	Up to 6
	Range	1.000e-9 to 9.999e+9
	Units	mol/L, mmol/L, g/U, mg/U, pg/L, ppm, ppb
ISE	Resolution	Up to 4 significant digits
ISE	Accuracy	±0.3%
	Calibration Points	Up to 6
	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
Conductivity	Calibration Points	Up to 5
J ====================================	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
	Range	5.00 Ω·cm~100.0 MΩ·cm
Resistivity	Resolution	0.01 Ω·cm minimum
21002502 (20)	Accuracy	±0.5% FS
	Range	0.000~1000 ppt
TDS	Resolution	0.001 ppm minimum, changed with range
	Accuracy	±0.5% FS
	Type	NaCl
	Range	0.0 ~ 80.0 ppt
Salinity	Resolution	0.1ppt
	Accuracy	±1ppt
	Range	
	Resolution	0.00 to 99.99 ppm
Dissolved Oxygen		0.01 ppm
	Accuracy Calibration Reminder	±0.10 ppm
Oxygen	Cambration Keminger	Yes
Concentration -	Colibration Daints	At
• 0	Calibration Points Barometric Compensation	Air-saturated water or zero point Yes



% Saturation - Polarographic Resolution 0.10% Accuracy ±2.0% Range -10 to 135 °C, 14 to 275 °F Unit °C, °F Resolution 0.1 Accuracy ±0.1°C Reading Mode Auto Read (Fast, Medium, Slow), Timed, Continuous Reading Prompts Reading, Stable, Locked Temp. Compensation ATC, MTC Data Storage 1000 Groups GLP Features Yes Log Management Yes PH Electrode BNC(Q9) Do with Temp. Probe 4-pin aviation connector Conductivity with Temp. Probe 5-pin aviation connector Outputs VSB 2.0 flash memory device, PC, scanner, RS 232 printer, auto-sampler Backlight Yes Auto Shutdown 1-60 min, off IP Rating IP54 Date and Time Yes General Weight 950g (2.09 lb) Dimensions 220x195x68 mm Weight (Gross) 5.5 kg	0/ 0 /	Range	(0.0 to 600)%
Range	% Saturation - Polarographic	Resolution	0.10%
Temperature 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 Storage 1000 Groups GLP Features Yes Log Management Yes PH Electrode BNC(Q9) DO with Temp. Probe 4-pin aviation connector Conductivity with Temp. Probe 5-pin aviation connector USB USB 2.0 flash memory device, PC, scanner, RS 232 printer, auto-sampler RS 232 printer, auto-sampler Auto Shutdown 1~60 min, off IP Rating IP54 Date and Time Yes General Power AC Adapter, 100-240V AC input, DC24V output Dimensions 220×195×68 mm Weight 950g (2.09 lb) Dimensions (Carton) 370×305×330 mm		Accuracy	±2.0%
Temperature 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 Storage 1000 Groups GLP Features Yes Log Management Yes pH Electrode BNC(Q9) DO with Temp. Probe 4-pin aviation connector Conductivity with Temp. Probe 5-pin aviation connector USB USB 2.0 flash memory device, PC, scanner, RS 232 printer, auto-sampler RS 232 printer, auto-sampler 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		Range	-10 to 135 °C, 14 to 275 °F
Resolution D.1	T	Unit	°C, °F
MeasurementReading ModeAuto Read (Fast, Medium, Slow), Timed, ContinuousReading PromptsReading, Stable, LockedTemp. CompensationATC, MTCData Storage1000 GroupsGLP FeaturesYesLog ManagementYesPH ElectrodeBNC(Q9)DO with Temp. Probe4-pin aviation connectorConductivity with Temp. Probe5-pin aviation connectorUSBUSB 2.0 flash memory device, PC, scanner,RS 232printer, auto-samplerBacklightYesAuto Shutdown1-60 min, offIP RatingIP54Date and TimeYesPowerAC Adapter, 100-240V AC input, DC24V outputDimensions220×195×68 mmWeight950g (2.09 lb)Dimensions (Carton)370×305×330 mm	1 emperature	Resolution	0.1
MeasurementReading PromptsReading, Stable, LockedTemp. CompensationATC, MTCData Storage1000 GroupsGLP FeaturesYesLog ManagementYespH ElectrodeBNC(Q9)DO with Temp. Probe4-pin aviation connectorConductivity with Temp. Probe5-pin aviation connectorUSBUSB 2.0 flash memory device, PC, scanner,RS 232printer, auto-samplerBacklightYesAuto Shutdown1-60 min, offIP RatingIP54Date and TimeYesGeneralPowerAC Adapter, 100-240V AC input, DC24V outputDimensions220x195x68 mmWeight950g (2.09 lb)Dimensions (Carton)370x305x330 mm		Accuracy	±0.1°C
Temp. Compensation ATC, MTC Data Storage 1000 Groups GLP Features Yes Log Management Yes PH Electrode BNC(Q9) DO with Temp. Probe 4-pin aviation connector Conductivity with Temp. Probe 5-pin aviation connector USB USB 2.0 flash memory device, PC, scanner, RS 232 printer, auto-sampler Backlight Yes Auto Shutdown 1-60 min, off IP Rating IP54 Date and Time Yes Power AC Adapter, 100-240V AC input, DC24V output Dimensions (Carton) 370x305x330 mm		Reading Mode	Auto Read (Fast, Medium, Slow), Timed, Continuous
Data Storage1000 GroupsGLP FeaturesYesLog ManagementYesInputspH ElectrodeBNC(Q9)DO with Temp. Probe4-pin aviation connectorConductivity with Temp. Probe5-pin aviation connectorOutputsUSBUSB 2.0 flash memory device, PC, scanner,RS 232printer, auto-samplerBacklightYesAuto Shutdown1-60 min, offIP RatingIP54Date and TimeYesPowerAC Adapter, 100-240V AC input, DC24V outputDimensions220x195x68 mmWeight950g (2.09 lb)Dimensions (Carton)370x305x330 mm	Measurement	Reading Prompts	Reading, Stable, Locked
Data managementGLP FeaturesYesLog ManagementYesInputspH ElectrodeBNC(Q9)DO with Temp. Probe4-pin aviation connectorConductivity with Temp. Probe5-pin aviation connectorUSBUSB 2.0 flash memory device, PC, scanner,RS 232printer, auto-samplerBacklightYesAuto Shutdown1~60 min, offIP RatingIP54Date and TimeYesPowerAC Adapter, 100-240V AC input, DC24V outputDimensions220x195x68 mmWeight950g (2.09 lb)Dimensions (Carton)370x305x330 mm		Temp. Compensation	ATC, MTC
Inputs Do with Temp. Probe 4-pin aviation connector	Data management	Data Storage	1000 Groups
Inputs pH Electrode BNC(Q9) DO with Temp. Probe 4-pin aviation connector Conductivity with Temp. Probe 5-pin aviation connector USB USB 2.0 flash memory device, PC, scanner, RS 232 printer, auto-sampler Backlight Yes Auto Shutdown 1~60 min, off IP Rating IP54 Date and Time Yes Power AC Adapter, 100-240V AC input, DC24V output Dimensions 220x195x68 mm Weight 950g (2.09 lb) Dimensions (Carton) 370x305x330 mm		GLP Features	Yes
Inputs DO with Temp. Probe Conductivity with Temp. Probe USB USB 2.0 flash memory device, PC, scanner, Printer, auto-sampler Backlight Yes Auto Shutdown IP Rating Date and Time Yes Power AC Adapter, 100-240V AC input, DC24V output Dimensions Weight Dimensions (Carton) To with Temp. Probe 4-pin aviation connector USB 1-pin aviation connector USB 1-pin aviation connector 1-pin aviation con		Log Management	Yes
Conductivity with Temp. Probe S-pin aviation connector USB USB 2.0 flash memory device, PC, scanner, Printer, auto-sampler Backlight Yes Auto Shutdown IP Rating Date and Time Yes Power AC Adapter, 100-240V AC input, DC24V output Dimensions Weight Dimensions (Carton) Typin aviation connector USB 2.0 flash memory device, PC, scanner, printer, auto-sampler Yes Auto Shutdown 1~60 min, off PS4 AC Adapter, 100-240V AC input, DC24V output Dimensions 370×305×330 mm	Inputs	pH Electrode	BNC(Q9)
Outputs USB USB 2.0 flash memory device, PC, scanner, RS 232 printer, auto-sampler Backlight Yes Auto Shutdown 1~60 min, off IP Rating IP54 Date and Time Yes Power AC Adapter, 100-240V AC input, DC24V output Dimensions 220×195×68 mm Weight 950g (2.09 lb) Dimensions (Carton) 370×305×330 mm		DO with Temp. Probe	4-pin aviation connector
Outputs RS 232 printer, auto-sampler Backlight Yes Auto Shutdown 1~60 min, off IP Rating IP54 Date and Time Yes Power AC Adapter, 100-240V AC input, DC24V output Dimensions 220×195×68 mm Weight 950g (2.09 lb) Dimensions (Carton) 370×305×330 mm		Conductivity with Temp. Probe	5-pin aviation connector
RS 232 printer, auto-sampler Backlight Yes Auto Shutdown 1~60 min, off IP Rating IP54 Date and Time Yes Power AC Adapter, 100-240V AC input, DC24V output Dimensions 220x195x68 mm Weight 950g (2.09 lb) Dimensions (Carton) 370x305x330 mm	Outputs	USB	USB 2.0 flash memory device, PC, scanner,
Display options Auto Shutdown IP Rating IP54 Date and Time Yes Power AC Adapter, 100-240V AC input, DC24V output Dimensions 220×195×68 mm Weight Dimensions (Carton) 370×305×330 mm		RS 232	printer, auto-sampler
Display options IP Rating Date and Time Yes Power AC Adapter, 100-240V AC input, DC24V output Dimensions 220×195×68 mm Weight 950g (2.09 lb) Dimensions (Carton) 370×305×330 mm	Display options	Backlight	Yes
IP Rating		Auto Shutdown	1~60 min, off
Power AC Adapter, 100-240V AC input, DC24V output Dimensions 220x195x68 mm Weight 950g (2.09 lb) Dimensions (Carton) 370x305x330 mm		IP Rating	IP54
Dimensions 220x195x68 mm		Date and Time	Yes
General Weight 950g (2.09 lb) Dimensions (Carton) 370×305×330 mm	General	Power	AC Adapter, 100-240V AC input, DC24V output
Dimensions (Carton) 370x305x330 mm		Dimensions	220×195×68 mm
		Weight	950g (2.09 lb)
Weight (Gross) 5.5 kg		Dimensions (Carton)	370×305×330 mm
		Weight (Gross)	5.5 kg