

M500T Multi-parameter Analyzer



Large color touch screen
Easy operation and comfortable experience



Autosampler available
Make measurement more efficient



User management system



Multiple external devices available
PC, autosampler, printer, scanning gun, USB flash disk, etc

GENERAL 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.

pH

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

Ion

- 1-6 points calibration
- Selectable measurement unit, including $\mu\text{g/L}$, mg/L , g/L , mmol/L , pX , ppm , 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^- , NO_3^- , BF_4^- , NH_4^+ , K^+ , Na^+ , Ca^{2+} , Cu^{2+} , Pb^{2+} , Ag^+ and etc., user-defined method is supported.

Conductivity

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

DO

- 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 .



| 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 Limit | 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 | 1E-9 to 9.999E9 |
| | Units | mol/L, mmol/L, g/L, mg/L, µg/L, ppm |
| | Resolution | Up to 4 significant digits |
| | Accuracy | ± 0.3% |
| Conductivity | 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 |
| | Calibration Points | Up to 5 |
| | Calibration Reminder | Yes |
| Resistivity | Standard Recognition | 10 µS/cm, 84 µS/cm, 500 µS/cm, 1413 µS/cm, 12.88 mS/cm |
| | Range | 5.00 Ω·cm~100.00 MΩ·cm |
| | Resolution | 0.01 Ω·cm minimum |
| TDS | Accuracy | ± 0.5% FS |
| | Range | 0.000~1000 ppt |
| | Resolution | 0.001 ppm minimum, changed with range |
| Salinity | Accuracy | ± 0.5%FS |
| | Type | NaCl% |
| | Range | (0.00~8.00)% |
| | Resolution | 0.01% |
| Dissolved Oxygen Concentration - Polarographic | Accuracy | ± 0.1% |
| | Range | 0.00 to 99.99 mg/L |
| | Resolution | 0.01 mg/L |
| | Accuracy | ± 0.3mg/L (0.00 to 20.00 mg/L); ± 10% (20.00 to 99.99 mg/L) |
| | Calibration Reminder | Yes |
| | Calibration Points | Air-saturated water or zero point |
| | Barometric Compensation | Yes |
| % Saturation -Polarographic | Manual Salinity Factor Correction | Yes |
| | Range | (0.0 to 600)% |
| | Resolution | 0.10% |
| Temperature | Accuracy | ± 2.0% |
| | Range | -10 to 135 °C, 14 to 275 °F |
| | Unit | °C, °F |
| | Resolution | 0.1 |
| Measurement | Accuracy | ± 0.1 |
| | Reading Mode | Auto Read (Fast, Medium, Slow), Timed, Continuous |
| | Reading Prompts | Reading, Stable, Locked |
| Data management | Temp. Compensation | ATC, MTC |
| | Data Storage | 1000 Groups |
| | GLP Features | Yes |
| Inputs | Log Management | Yes |
| | pH Electrode | BNC(Q9) |
| | DO with Temp. Probe | 4-pin aviation connector |
| Outputs | Conductivity with Temp. Probe | 5-pin aviation connector |
| | USB | USB 2.0 flash memory device, PC |
| Display options | RS 232 | printer, scanner, auto-sampler |
| | Backlight | Yes |
| | Auto Shutdown | 1~60 min, off |
| | IP Rating | IP54 |
| General | Date and Time | Yes |
| | Power | AC Adapter, 100-240V AC input, DC24V output |
| | Dimensions | 220 × 195 × 68 mm |
| | Weight | 950g (2.09 lb) |