

M500T-A 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.
- IP54 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 pg/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°C), temperature compensation coefficient and TDS factor.
3. Temperature compensation type (none, linear, pure water).

DO

1. E-301-QC 3 in 1 pH composite electrode
2. DJS-1VTC EC electrode
3. NIST pH standard solution(4.01, 7.00, 10.01) , 50ml/vial
4. 1413μS/cm EC standard solution, 50ml, 1 vial
5. REX-6 electrode stand
6. Touch pen



Specifications

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|---------------------|---|---|
| Model | M500T-A | |
| Parameters | pH/EC/ISE/Temp. (mV/ORP/pX/Resistivity/TDS/Sal.) | |
| 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 | 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 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 | 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~1000ppt |
| | Resolution | 0.001ppm minimum, changed with range |
| | Accuracy | ±0.5% FS |
| Salinity | Type | NaCl |
| | Range | 0.0 ~ 80.0 ppt |
| | Resolution | 0.1ppt |
| | Accuracy | ±1ppt |
| 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 |

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| 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, 100-240Y AC input, DC24Y output |
| | Dimensions | 220×195×68 mm |
| | Weight | 950g (2.09 lb) |
| | Dimensions (Carton) | 370×305×330 mm |
| | Weight (Gross) | 5.5 kg |