## General Features

- High resolution LCD display, 5.7 inches
- 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 500 sets (GLP-compliant)
- Support for USB or RS-232 communication
- Reset feature automatically resumes all settings back to factory default options
- IP54 waterproof



M300F Multi-parameter Analyzer



**Automatic identification standard solution**
Fast calibration and more accurate measurement




**Multiple external devices available**
PC, printer

## Ion

- 1-5 points calibration
- Selectable measurement unit, including µg/L, mg/L, g/L, mmol/L, pX, ppm, ppb, 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 $F^-$, $Cl^-$, $Br^-$, $I^-$, $NO_3^-$, $BF_4^-$, $NH_4^+$, $K^+$, $Na^+$, Ca2+, $Cu^{2+}$, $Pb^{2+}$, $Ag^+$ and etc., user-defined method is supported

## Electrochemical Instruments and Water Quality Analyzers

### pH

- 1-5 points calibration with Standard Recognition
- Selectable pH buffer groups, including NIST, DIN, GB, USA
- Automatic electrode diagnosis with pH slope and offset display

### Conductivity

- 1-3 points calibration with Standard Recognition
- Temperature compensation type (none, linear, pure water)
- Settable parameters, including cell constant, temperature compensation coefficient and TDS factor

### DO

- Support for air-saturated water or zero oxygen calibration
- Manual Salinity Factor Correction
- Selectable pressure unit, including kPa, mbar, Torr, Atm
- Auto barometric pressure compensation

## Technical Parameters

| Model | | M300F |
|---|---|---|
| Parameters | | pH/EC/ISE/DO/Temp. (mV/ORP/pX/Resistivity/TDS/Sal./DO Saturation) |
| pH | Range | -2.00 to 20.00pH |
| | Resolution | 0.1, 0.01 pH |
| | Accuracy | ± 0.01 pH |
| | Calibration Points | Up to 5 |
| | Standard Customization | Yes |
| | Standard Recognition | NIST, GB, USA and DIN buffers |
| | Slope Limit | Yes |
| mV/ORP | Range | -2000.0 to 2000.0 mV |
| | Resolution | 0.1 mV |
| | Accuracy | ± 0.3 mV or ± 0.1% |
| pX | Range | -2.00 to 20.00 pX |
| | Resolution | 0.1, 0.01 pX |
| | Accuracy | ± 0.01 pX |
| | Calibration Points | Up to 5 |
| ISE | Range | 1.000e-9 to 9.999e+9 |
| | Unit | mol/L, mmol/L, g/L, mg/L, μ g/L, ppm, ppb |
| | Resolution | Up to 4 significant digits |
| | Accuracy | ± 0.5% |
| | Calibration Points | Up to 5 |
| Conductivity | Range | 0.000 μ S/cm to 1000 mS/cm |
| | Resolution | 0.001 μ S/cm minimum, various with range selection |
| | Accuracy | ± 1.0% FS |
| | Reference Temperature | 20, 25 °C |
| | Calibration Points | Up to 3 |
| | Standard Recognition | 84 μ S/cm, 1413 μ S/cm, 12.88mS/cm |
| Resistivity | Range | 5.00 Ω·cm~20.00 MΩ·cm |
| | Resolution | 0.01 Ω·cm minimum |
| | Accuracy | ± 1.0% FS |
| TDS | Range | 0.00 ppm~300 ppt |
| | Resolution | 0.01mg/L minimum, various with range selection |
| | Accuracy | ± 1.0% FS |
| Salinity | Range | 0.0~80.0 ppt |
| | Resolution | 0.1ppt |
| | Accuracy | ± 2ppt |
| Dissolved Oxygen Concentration-Polarographic | Range | 0.00 to 20.00 ppm |
| | Resolution | 0.01 ppm |
| | Accuracy | ± 0.10 ppm |
| | Calibration Points | Air-saturated water or zero point |
| | Barometric Compensation | Yes |
| | Manual Salinity Factor Correction | Yes |
| % Saturation-Polaro-graphic | Range | (0.0 to 200.0)% |
| | Resolution | 0.1% |
| | Accuracy | ± 2.0% |
| Temperature | Range | -5 to 110 °C, 23 to 230 °F |
| | Unit | °C, °F |
| | Resolution | 0.1 |
| | Accuracy | ± 0.2 |
| Measurement | Reading Mode | Auto Read (Fast, Medium, Slow), Timed, Continuous |
| | Reading Prompts | Reading, Stable, Locked |
| | Temp. Compensation | ATC, MTC |
| Data management | Data Storage | 500 results each |
| | 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 | PC |
| | RS 232 | printer |
| 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, DC9V output |
| | Dimensions | 242 × 195 × 68 mm |
| | Weight | 900g (1.98 lb) |