

# M300F Multi-parameter Analyzer

## 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.

## pH

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

## Ion

1. 1-5 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  $F^-$ ,  $Cl^-$ ,  $Br^-$ ,  $I^-$ ,  $NO_3^-$ ,  $BF_4^-$ ,  $NH_4^+$ ,  $K^+$ ,  $Na^+$ ,  $Ca^{2+}$ ,  $Cu^{2+}$ ,  $Pb^{2+}$ ,  $Ag^+$  and etc., user-defined method is supported.

## Conductivity

1. 1-3 points calibration with Standard Recognition.
2. Settable parameters, including cell constant, 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. 1413 $\mu$ S/cmEC standard solution, 50ml, 1 vial
6. REX-5 electrode stand



**Specifications**

<b>Model</b>	<b>M300F</b>	
<b>Parameters</b>	<b>pH/EC/ISE/DO/Temp. (mV/ORP/pX/Resistivity/TDS/Sal./DO Saturation)</b>	
<b>pH</b>	<b>Range</b>	<b>-2.00 to 20.00pH</b>
	<b>Resolution</b>	<b>0.1, 0.01 pH</b>
	<b>Accuracy</b>	<b>±0.01 pH</b>
	<b>Calibration Points</b>	<b>Up to 5</b>
	<b>Standard Customization</b>	<b>Yes</b>
	<b>Standard Recognition</b>	<b>NIST, GB, USA and DIN buffers</b>
	<b>Slope Limit</b>	<b>Yes</b>
<b>mV</b>	<b>Range</b>	<b>-2000.0 to 2000.0 mV</b>
	<b>Resolution</b>	<b>0.1 mV</b>
	<b>Accuracy</b>	<b>±0.3 mV or ±0.1%</b>
<b>pX</b>	<b>Range</b>	<b>-2.00 to 20.00 pX</b>
	<b>Resolution</b>	<b>0.1, 0.01 pX</b>
	<b>Accuracy</b>	<b>±0.01 pX</b>
	<b>Calibration Points</b>	<b>Up to 5</b>
<b>ISE</b>	<b>Range</b>	<b>1.000e-9 to 9.999e+9</b>
	<b>Unit</b>	<b>mol/L, mmol/L, g/L, mg/L, pg/L, ppm, ppb</b>
	<b>Resolution</b>	<b>Up to 4 significant digits</b>
	<b>Accuracy</b>	<b>±0.5%</b>
	<b>Calibration Points</b>	<b>Up to 5</b>
<b>Conductivity</b>	<b>Range</b>	<b>0.000 µS/cm to 1000 mS/cm</b>
	<b>Resolution</b>	<b>0.001 µS/cm minimum, various with range selection</b>
	<b>Accuracy</b>	<b>±1.0% FS</b>
	<b>Reference Temperature</b>	<b>20, 25 °C</b>
	<b>Calibration Points</b>	<b>Up to 3</b>
	<b>Standard Recognition</b>	<b>84µS/cm, 1413µS/cm, 12.88mS/cm</b>
<b>Resistivity</b>	<b>Range</b>	<b>5.00 Ω·cm~20.00 MΩ·cm</b>
	<b>Resolution</b>	<b>0.01 Ω·cm minimum</b>
	<b>Accuracy</b>	<b>±1.0% FS</b>
<b>TDS</b>	<b>Range</b>	<b>0.00 ppm~300 ppt</b>
	<b>Resolution</b>	<b>0.01mg/L minimum, various with range selection</b>
	<b>Accuracy</b>	<b>±1.0% FS</b>
<b>Salinity</b>	<b>Range</b>	<b>0.0~80.0 ppt</b>
	<b>Resolution</b>	<b>0.1ppt</b>
	<b>Accuracy</b>	<b>±2ppt</b>
<b>Dissolved Oxygen Concentration</b>	<b>Range</b>	<b>0.00 to 20.00 ppm</b>
	<b>Resolution</b>	<b>0.01 ppm</b>
	<b>Accuracy</b>	<b>±0.10 ppm</b>
	<b>Calibration Points</b>	<b>Air-saturated water or zero point</b>
	<b>Barometric Compensation</b>	<b>Yes</b>
	<b>Manual Salinity Factor Correction</b>	<b>Yes</b>
<b>Saturation</b>	<b>Range</b>	<b>(0.0 to 200.0)%</b>
	<b>Resolution</b>	<b>0.1%</b>
	<b>Accuracy</b>	<b>±2.0%</b>
<b>Temperature</b>	<b>Range</b>	<b>-5 to 110 °C, 23 to 230 °F</b>
	<b>Unit</b>	<b>°C, °F</b>
	<b>Resolution</b>	<b>0.1</b>
	<b>Accuracy</b>	<b>±0.2°C</b>

<b>Measurement</b>	<b>Reading Mode</b>	<b>Auto Read (Fast, Medium, Slow), Timed, Continuous</b>
	<b>Reading Prompts</b>	<b>Reading, Stable, Locked</b>
	<b>Temp. Compensation</b>	<b>ATC, MTC</b>
<b>Data management</b>	<b>Data Storage</b>	<b>500 results each</b>
	<b>GLP Features</b>	<b>Yes</b>
<b>Inputs</b>	<b>pH Electrode</b>	<b>BNC(Q9)</b>
	<b>DO with Temp. Probe</b>	<b>4-pin aviation connector</b>
	<b>Conductivity with Temp. Probe</b>	<b>5-pin aviation connector</b>
<b>Outputs</b>	<b>USB</b>	<b>PC</b>
	<b>RS 232</b>	<b>printer</b>
<b>Display options</b>	<b>Backlight</b>	<b>Yes</b>
	<b>Auto Shutdown</b>	<b>1~60 min, off</b>
	<b>IP Rating</b>	<b>IP54</b>
	<b>Date and Time</b>	<b>Yes</b>
<b>General</b>	<b>Power</b>	<b>AC Adapter, 100-240V AC input, DC9V output</b>
	<b>Dimensions</b>	<b>242x195x68 mm</b>
	<b>Weight</b>	<b>900g (1.98 lb)</b>
	<b>Dimensions (Carton)</b>	<b>370x305x330 mm</b>
	<b>Weight (Gross)</b>	<b>3.5 kg</b>