M310F Multi-parameter Analyzer

Features

- LCD display screen, 3.5 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 capacity of up to 500 sets for each parameter (GLP-compliant).
- Support for USB communication.
- Auto-power off feature effectively extends the battery service life.
- Reset feature automatically resumes all settings back to factory default options.
- IP65 waterproof. The portable meter is suitable for fields measurements and out door measurements.

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. 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.

Conductivit

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/viaI

5. 1413μS/cm EC standard solution, 50ml, 1 vial

6. Electrode holder

7. Silicone rubber case

8. Wristbands

9. Carrying Case

Specifications

Model		M310F
Parameters		pH/EC/ISE/DO/Temp. (mV/pX/Resistivity/TDS/Sal./DO Saturation)
pH	Range	-2.00 to 20.00 pH
	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	Range	-2000.0 to 2000.0 mV
	Resolution	0.1
	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
	Units	mol/L, mmol/L, g/L, mg/L, pg/L, ppm, ppb
	Resolution	Up to 4 significant digits
	Accuracy	±0.5%
	Calibration Points	Up to 5
Conductivity	Range	0.000 μS/cm to 500 mS/cm
	Resolution	0.001 μS/cm minimum, various with range selection
	Accuracy	±1.0% FS
	Reference Temperature	20, 25 °C
	Calibration Points	Up to 3
	Standard Recognition	84μS/cm, 1413μS/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	0.01 ppm minimum, various with range selection
	Accuracy	±1.0%FS
Salinity	Range	0.0~80.0 ppt
	Resolution	0.1ppt
	Accuracy	±2ppt
Dissolved Oxygen Concentration	Range	0.00 to 50.00 ppm
	Resolution	0.01ppm
	Accuracy	±0.10ppm
	Calibration Points	Air-saturated water or zero point
	Barometric Compensation	Yes
	Manual Salinity Factor Correction	Yes
Saturation	Range	(0.0 to 300.0)%
	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°C

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, printer**
Display options	**Backlight**	**Yes**
	Auto Shutdown	**300, 600, 1200, 1800, 3600 sec., off**
	IP Rating	**IP65**
	Date and Time	**Yes**
General	**Power**	**Rechargeable Lithium battery, AC Adapter, 100-240V AC input, DC5V output**
	Dimensions	**80x225x35 mm**
	Weight	**400g (0.88 lb)**
	Dimensions (Carton)	**490x410x220 mm**
	Weight (Gross)	**5.5 kg**