# M310F Multi-parameter Analyzer



## GENERAL 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.

## pН

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

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- 1-5 points calibration.
- $\bullet$  Selectable measurement unit, including µg/L, mg/L, g/L, mmol/L, pX, ppm, etc.
- 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<sup>-</sup>, Cl<sup>-</sup>, Br<sup>-</sup>, l<sup>-</sup>, NO<sub>3</sub><sup>-</sup>, BF<sub>4</sub><sup>-</sup>, NH<sub>4</sub><sup>+</sup>, K<sup>+</sup>, Na<sup>+</sup>, Ca<sup>2+</sup>, Cu<sup>2+</sup>, Pb<sup>2+</sup>, Ag<sup>+</sup> and etc., user-defined method is supported.

#### Conductivity

- 1-3 points calibration with Standard Recognition.
- Settable parameters, including cell constant, 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.



Assortment of accessories

Make the detection more accurate
The suitcase is optional



Easy-operate system

Multi parameters can be monitoring



Optional silicone rubber case
Provide shock absorption function to avoid
falling damage

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Model Parameters		M310F
	Parameters	pH/EC/ISE/DO/Temp. (mV/ORP/pX/Resistivity/TDS/Sal./DO Saturation)
рН	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 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
	Resolution	0.1, 0.01 pX
	Accuracy	± 0.01 pX
	Calibration Points	Up to 5
ISE	Range	1E-9 to 9.999E9
	Units	mol/L, mmol/L, g/L, mg/L, μ g/L
	Resolution	Up to 4 significant digits
	Accuracy	± 0.5%
	Calibration Points	Up to 5
Conductivity	Range	0.000 µ S/cm to 500 mS/cm
		0.001 μ S/cm minimum,
	Resolution	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 M Ω·cm
	Resolution	0.01 Ω · cm minimum
		± 1.0% FS
	Accuracy	
TDS	Range	0.00mg/L~300g/L
	Resolution	0.01mg/L minimum, various with range selection
Salinity	Accuracy	±1.0%
	Range	(0.00~8.00)%
	Resolution	0.01%
	Accuracy	± 0.2%
Dissolved Oxygen Concentration	Range	0.00 to 50.00 mg/L
	Resolution	0.01mg/L
	Accuracy	± 0.1mg/L
	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	± 10.0%
Temperature	Range	-5 to 110 °C, 23 to 230 °F
	Unit	°C, °F
	Resolution	0.1
	Relative Accuracy	± 0.2
Measurement  Data management	Reading Mode	Auto Read (Fast, Medium, Slow), Timed, Continuous
	Reading Prompts	Reading, Stable, Locked
	Temp. Compensation	ATC, MTC
	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		Rechargeable Lithium battery, AC Adapter, 100-240V AC input, DC5V
	Power	output
	Dimensions	80 × 255 × 35 mm
	Weight	400g (0.88 lb)
	TTOIGHT	1008 (0.00 12)