Electrochemical Instruments and Water Quality Analyzers

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



M310F Multi-parameter Analyzer



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

Ion

- 1-5 points calibration
- Selectable measurement unit, including µg/L, mg/L, g/L, mmol/L, pX, ppm, ppb, 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^-, 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

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
- Auto barometric pressure compensation
- Selectable pressure unit, including kPa, mbar, Torr, Atm
- Manual Salinity Factor Correction

Technical Parameters

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, 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 500 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 M Ω·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
	Relative 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, 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	80 × 225 × 35 mm
	Weight	400g (0.88 lb)