

310F Series Portable Meters



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 parameters (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.

pH

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

Ion

- 1-5 points calibration.
- Selectable measurement unit, including $\mu\text{g/L}$, 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^- , 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

- 1-3 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

Model		M310F	M310F-A	PH310F	EC310F	DO310F
Parameters (up to 12)		pH/EC/ISE/DO/Temp. (mV/pX/Resistivity/TDS/Sal. / DO Saturation)	pH/EC/ISE/Temp. (mV/pX/Resistivity/ TDS/Sal.)	pH/Temp. (mV)	EC/Temp. (Resistivity/ TDS/Sal.)	DO/Temp. (DO Saturation)
pH	Range	-2.00 to 20.00pH	•	•	/	/
	Resolution	0.1, 0.01 pH	•	•	/	/
	Accuracy	±0.02 pH	•	•	/	/
	Calibration Points	Up to 5	•	•	/	/
	Standard Customization	Yes	•	•	/	/
	Standard Recognition	NIST, GB and DIN buffers	•	•	/	/
mV	Range	-2000.0 to 2000.0 mV	•	•	/	/
	Resolution	0.1	•	•	/	/
	Accuracy	±0.3 mV or ±0.1 % of reading whichever is greater	•	•	/	/
pX	Range	-2.00 to 20.00	•	/	/	/
	Resolution	0.1, 0.01 pX	•	/	/	/
	Accuracy	±0.02 pX	•	/	/	/
	Calibration Points	Up to 5	•	/	/	/
ISE	Range	1E-9 to 9.999E9	•	/	/	/
	Units	mol/L, mmol/L, g/L, mg/L, µg/L	•	/	/	/
	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; changed with range	•	/	•	/
	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	5.00Ω·cm ~ 20.00MΩ·cm	•	/	•	/
	Resolution	0.01Ω·cm minimum	•	/	•	/
	Accuracy	±1.0 % FS	•	/	•	/
TDS	Range	0.00mg/L ~ 300g/L	•	/	•	/
	Resolution	0.01mg/L minimum; changed with range	•	/	•	/
	Accuracy	±1.0%	•	/	•	/
Salinity	Range	(0.00 ~ 8.00)%	•	/	•	/
	Resolution	0.01%	•	/	•	/
	Accuracy	±0.2%	•	/	•	/
Dissolved Oxygen Concentration	Sensor Type	Polarographic	/	/	/	•
	Range	0.00 to 50.00 mg/L	/	/	/	•
	Resolution	0.01mg/L	/	/	/	•
	Accuracy	±0.3mg/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	Reading Mode	AutoRead(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)	•	•	/	/
	Temp./DO Probe	4-pin aviation connector	•	•	/	/
	Temp./EC Probe	5-pin aviation connector	•	/	/	/
Outputs	USB	PC,printer	•	•	•	•
	Backlight	Yes	•	•	•	•
Display Options	Auto Shut-down	300, 600, 1200, 1800, 3600sec, off	•	•	•	•
	IP Rating	IP65	•	•	•	•
	Date and Time	Yes	•	•	•	•
General	Power	Rechargeable Lithium batter; AC Adapter, 100-240 VAC input, DC5V output	•	•	•	•
	Dimensions	80 x 255 x 35 mm	•	•	•	•
	Weight	400g (0.88 lb)	•	•	•	•

• INCLUDED, / NONE