

M310T Multi-parameter Analyzer



Large color touch screen
Easy operation and comfortable experience



Tilting stand
Support better reading and operation



Multiple external devices available
PC, printer



Wristbands
Safety hold

GENERAL FEATURES

- Color High contrast LCD touchscreen, 4.3 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 1000 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

- 1-5 points calibration with Standard Recognition.
- Selectable pH buffer groups, including NIST, DIN, GB, USA.
- 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 , 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.

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 .

Model	M310T
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
mV	Up to 5
	Standard Customization
	Yes
	Calibration Reminder
	Yes
	Standard Recognition
	NIST, GB, USA and DIN buffers
pX	Slope Limit
	Yes
	Range
	-2000.0 to 2000.0 mV
	Resolution
	0.1 mV
	Accuracy
ISE	±0.3 mV or ±0.1%
	Range
	-2.00 to 20.00 pX
	Resolution
	0.1, 0.01 pX
	Accuracy
	±0.01 pX
Conductivity	Calibration Points
	Up to 5
	Range
	1.000e-9 to 9.999e+9
	Units
	mol/L, mmol/L, g/L, mg/L, µg/L, ppm, ppb
	Resolution
Resistivity	Up to 4 significant digits
	Accuracy
	±0.5%
	Calibration Points
	Up to 5
	Range
	0.000 µS/cm to 1000 mS/cm
TDS	Resolution
	0.001 µS/cm minimum, various with range selection
	Accuracy
	±1.0% FS
	Reference Temperature
	20, 25 °C
	Calibration Points
Salinity	Up to 3
	Standard Recognition
	84µS/cm, 1413µS/cm, 12.88mS/cm
	Range
	5.00 Ω·cm~20.00 MΩ·cm
	Resolution
	0.01Ω·cm minimum,
Dissolved Oxygen Concentration	Accuracy
	±1.0% FS
	Range
	0.00 ppm~300 ppt
	Resolution
	0.01mg/L minimum, 3 significant digits
	Accuracy
Saturation	±1.0%FS
	Range
	0.0~80.0 ppt
	Resolution
	0.1ppt
	Accuracy
	±2ppt
Temperature	Sensor Type
	Polarographic
	Range
	0.00 to 50.00 ppm
	Resolution
	0.01mg/L
	Accuracy
Measurement	±0.10ppm
	Calibration Points
	Air-saturated water or zero point
	Barometric Compensation
	Yes
	Manual Salinity Factor Correction
	Yes
Data management	Range
	(0.0 to 300.0)%
	Resolution
	0.10%
	Accuracy
	±2.0%
	Range
Inputs	-5 to 110 °C, 23.0 to 230 °F
	Unit
	°C, °F
	Resolution
	0.1
	Relative Accuracy
	±0.2
Outputs	Reading Mode
	Auto-Read (Fast, Medium, Slow), Timed, Continuous
	Reading Prompts
	Reading, Stable, Locked
	Temp. Compensation
	ATC, MTC
	Data Storage
Display options	1000 Groups
	GLP Features
	Yes
	pH Electrode
	BNC(Q9)
	DO with Temp. Probe
	4-pin aviation connector
General	Conductivity with Temp. Probe
	5-pin aviation connector
	USB
	PC, printer
	Backlight
	Yes
	Auto Shutdown
	300, 600, 1200, 1800, 3600sec., off
	IP Rating
	IP65
	Date and Time
	Yes
	Power
	Rechargeable Lithium battery, AC Adapter, 100-240V AC input, DC5V output
	Dimensions
	90 x 255 x 40 mm
	Weight
	500g (1.1 lb)