DRAWELL
Artist of Science

M310T Multi-parameter Analyzer

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 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 μg/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.

Conductivity

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/vial
5. 1413μS/cmEC standard solution, 50ml, 1 vial
6. Electrode holder
7. Silicone rubber case
8. Wristbands
9. Carrying Case

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Specifications

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	**Up to 5**
	Standard Customization	**Yes**
	Calibration Reminder	**Yes**
	Standard Recognition	**NIST, GB, USA and DIN buffers**
	Slope Limit	**Yes**
mV	**Range**	**-2000.0 to 2000.0 mV**
	Resolution	**0.1 mV**
	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 pS/cm to 1000 mS/cm**
	Resolution	**0.001 pS/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	**0.01Ω ·cm minimum**
	Accuracy	**±1.0% FS**
TDS	**Range**	**0.00 ppm~300 ppt**
	Resolution	**0.01mg/L minimum, 3 significant digits**
	Accuracy	**±1.0%FS**
Salinity	**Range**	**0.0~80.0 ppt**
	Resolution	**0.1ppt**
	Accuracy	**±2ppt**
Dissolved Oxygen Concentration	**Sensor Type**	**Polarographic**
	Range	**0.00 to 50.00 ppm**
	Resolution	**0.01mg/L**
	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	**0.10%**
	Accuracy	**±2.0%**

Temperature	Range	-5 to 110 °C, 23.0 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	1000 Groups
	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, 3600sec., off
	IP Rating	IP65
	Date and Time	Yes
General	Power	Rechargeable Lithium battery, AC Adapter, 100-240V AC input, DC5V output
	Dimensions	90 x 255 x 40 mm
	Weight	500g (1.1 lb)
	Dimensions (Carton)	490x410x220 mm
	Weight (Gross)	5.5 kg