



MM-3194

Multipleparameter Waterproofmeter

pH / mV, ORP, EC, TDS, Resistivity, Salinity, Seawater σ, Dissolved Oxygen, Atmospheric Pressure and Temperature

- Waterproof:

- IP67 rated waterproof, rugged enclosure for meter, IP68 for probe

- Digital probe:

- Digital probe with three connections for pH (ORP), EC and sensors and integral temperature sensor.
- Color coded, field replaceable sensor:
- Auto-sensor recognition feature:
- Quick calibration feature:
- Autpmatic temperature compensation:
- Automatic logging:
 - Store up to

- Log-on-demand:

- Store measurement data at the press of a button.

- GLP:

- GLP data provides data from provides five calibrations good Laboratory Practices are met.

- Dedicated Help key:

- On-screen context specific help is readily available at the press of a button.
- Backlit LCD display with multifunction virtual keys:
- Intuitive keypad:
 - Hard and virtual soft keys.
- Connectivity:
 - PC connectivity via opto-isolated micro-USB with Analytical Software
- Up to 360 hours of battery life:
 - Powered by (4) 1.5V AA batteries
- Quick Connect Probe:
 - Built in barometer for DO concentration in meter.













- For Universal Applications:

MM-3194 provides multiparameter measurement in a compact and rugged, IP67 waterproof enclosure, Ideal for demanding applications, each meter features our rugged, replaceable sensors.

A backlit, graphic LCD provides easy to read resolution even in low-litareas. A combination of dedicated and soft keys allows easy, intuitive operation in a choice of languages.

- Data Logging:

MM-3194 allows user users to store up to 45,000 continuous or log-on- demand samples with logging intervals from one second to three hours logged data can be later transferred to a PC with the MM-3194 Micro USB cable and Analytical Software.

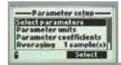
- Dedicated help button:

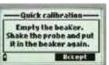
The contextul Help Menu can be accessed to obtain on-screen information and assistance about each feature at the touch of a botton.

- Quick connect probe :

The MM-3194 probe features a quick connector to make attaching and removing the probe simple and easy.









- Field Ready with quick calibration solution:

- Standardize pH and conductivity with one calibration solutoin.
- Simply screw the calibration beaker filled with (500 mL) or (1 gallon) solution on to the probe, select "Quick calibration" from the menu and press OK. Individual calibration may also be performed using multiple calibration points.

- Setup:

- Extensive setup screen features.

- Guides:

- On screen guides are displayed to help you while performing procedures such as calibration.
- Rugged carrying case with custom thermoformed insert included

pH Specific Features

- Calibration:

- Up to a three point calibration with five standard buffers and one custom buffer available.

EC/TDS/Resistivity Specific Features

- Calibration:

- Single point calibration from six standards (84 μ S/cm, 1.413 μ S/cm, 5.00mS/cm, 12.88 mS/cm, 80mS/cm, 111.8 mS/cm or custom point)

- Tempearture compensation:

- Automatic Tempearture Compensation.
- Configurable temperature coefficient range from 0.00 to 6.00%/°C.
- Choice of reference temperatures at 20 or 25°C.
- Absolute conductivity can be display along with temperature compensated value.

- Autoranging:

- Salinity readings:

- Practical Salinity Scale (PSU) based on conductivity calibration.

Dissolved Oxygen Specific Features

- Choice of units:
- Display Units in % saturation or mg/L (ppm)
- Salinity compensation for concentration:
- Pressure compensation for concentration:
- Built-in barometer with user-selectable unts (mmHg, inHg, atm, psi, kPa, mbar)
- Tempearture compensation:
- Polarization:
- Automatic polarization of probe at startup.

- Membrane caps:

- Ready-to-use HDPE pre-tensioned membrane caps are easy to replace.



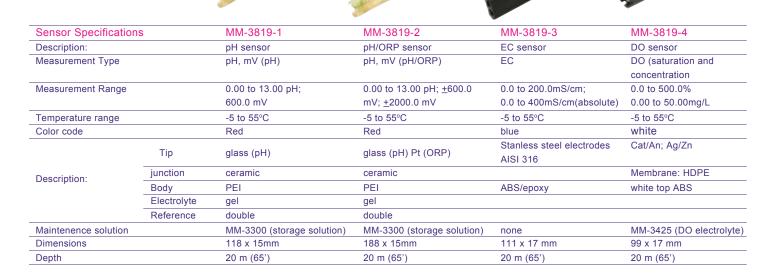


Probe Specification	MM-3194	
Sensor inputs	3 (pH, DO, EC)	
Sample Environment	Fresh, brackish, seawa	ater
Waterproof Protection	IP68	
Operating Temperature	-5 to 55°C	
Storage Temperature	-20 to 70°C	
Maximum Depth	20 m (66')	
Dimensions (without cable)	342 mm (13.5"); 46 mr	n(1.8") dia
Weight (without batteries and sensors)	570 g (20.1 oz.)	
Cable specification	Multistrand-multiconductor shielded cable with internal strength member rated for 68kg (150lb.) intermittent use.	
	Body	ABS
	Threads	Nylon
Wetted Materials	Shield	ABS/316 SS
	Temperature Probe	316 SS
	0-rings	EPDM

Multi-function Sensor

- Quick sensor replacement

 Sensor replacement is quick and easy with field replaceable, screw type connectors and are color coded for easy identification. The these meters automatically recognize sensors.



Specifications	MM-3194		
pH/mV	Range	0.00 to 14.00 pH / <u>+</u> 600.0 mV	
	Resolution	0.01 pH / 0.1 mV	
	Accuracy	±0.02 pH / ±0.5 mV	
	Calibration	automatic one, two or three points with automatic recognition of five standard buffers (pH 4.01, 6.86, 7.01, 9.18, 10.01) or one custom buffer	
ORP	Range	<u>+</u> 2000.0 mV	
	Resolution	0.1 mV	
	Accuracy	<u>±</u> 1.0 mV	
	Calibration	automatic one custom point (relative mV)	



Specifications		MM-3194
	Range	0 to 200 mS/cm (absolute EC up to 400 mS/cm)
EC	Resolution	Manual: 1μ S/cm; 0.001 mS/cm; 0.01 mS/cm; 0.1 mS/cm; 1 mS/cm; automatic: 1μ S/cm from 0 to 9999 μ S/cm: 0.01 mS/cm from 10.00 to 99.99 mS/cm; 0.1 mS/cm from 100.0 to 400.0 mS/cm; automatic mS/cm: 0.001 mS/cm: 0.001 mS/cm from 0.000 to 9.999 mS/cm; 0.01 mS/cm from 10.00 to 99.99 mS/cm; 0.1 mS/cm from 100.0 to 400.0 mS/cm.
	Accuracy	±1% of reading or +1µS/cm whichever is greater
	Calibration	autonatic single point, with six standard solutions (84 μ S/cm, 1413 μ S/cm, 5.00 mS/cm, 12.88 mS/cm, 80.0 mS/cm, 111.8 mS/cm) or custom point
TDS	Range	0 to 4,00,000 ppm (mg/L) (the maximum value depends on the TDS factor)
	Resolution	Manual: 1 ppm (mg/L); 0.001 ppt (g/L); 0.01 ppt (g/L); (g/L) ; (g/L) ; 1 ppt (g/L); automatic; 1 ppm (mg/L) from 0 to 9999 ppm (mg/L0; 0.01 ppt (g/L) from 10.00 to 99.99 ppt (g/L); 0.1 ppt (g/L) from 100.0 to 400.0 ppt (g/L); automatic ppt (g/L): 0.01 ppt (g/L) from 0.000 to 9.999 ppt (g/L); ppt (g/L) from 10.00 to 99.99 ppt (g/L); 0.1 ppt (g/L) from 100.0 to 400.0 ppt (g/L)
	Accuracy	±1% of reading or ±1 ppm (mg/L) whichever is greater
	Calibration	Based on conductivity or salinity calibration
Resistivity	Range	0 to 999999 Ω/cm; 0 to 1000.0 kΩ/cm; 0 to 1.0000 mΩ/cm
	Resolution	dependent on resistivity reading
·	Calibration	Based on conductivity or salinity calibration
	Range	0.00 to 70.00 PSU
	Resolution	0.01 PSU
Salinity	Accuracy	±2% of reading or ±0.01 PSU whichever is greater
	Calibration	Based on conductivity calibration
	Range	0.0 to 50.0 σ_{i} , σ_{c} , σ_{c} , σ_{25}
	Resolution	0.1 σ_1 , σ_2 , σ_{25}
Seawater σ	Accuracy	±1 σ,, σ ₀ , σ ₂₅
	Calibration	Based on conductivity or salinity calibration
	Range	0.0 to 500.0%; 0.00 to 50.00 ppm (mg/L)
	Resolution	0.1%; 0.01 ppm (mg/L)
Dissolved	Accuracy	0.0 to 500.0%; ±1.5% of reading or ±1.0% whichever is grater; 300.0 to 500.0; ±3% of reading;
Oxygen	,	0.00 to 30.00 ppm (mg/L); ±1.5% of reading or ±0.10 ppm (mg/L), whichever is greater;
Охуден		030.00 ppm (mg/L) to 50.00 ppm (mg/L); ±3% of reading
	Calibration	automatic one or two points at 0.100% or one custom point
	Range	450 to 850mm Hg;1772 to 33.46 in Hg;600.0 to 1133.2mbar;8702 to 16.436psi;05921 to 1.1184atm;60.00 to 113.32kF
Atmospheric Pressure	Resolution	0.1 mm Hg: 0.01 in Hg; 0.1mbar; 0.001psi; 0.001 psi; atm; 0.01kPa
	Accuracy	+3mm Hg within +15°C from the temperature during calibration
	Calibration	automatic at one custom point
	Range	- 5.00 to 55.00°C;23.00 to 131.00°F; 268.15 to 328.15K
Temperature	Resolution	0.01°C; 0.01°F; 0.01K
· oporataro	Accuracy	±0.15°C; ±0.27°F; ±0.15K
	Calibration	automatic at one custom point
	Temperature	•
Temperature	Compensation	automatic from -5 to 55°C (23 to 131°F)
Temperature	Logging Memory	45.000 records(continuous logging or log-on-demand of all parameters)
	Logging Interval	one second to three hours
	PC Connectivity	via USB (with Analytical PC software)
	Environment	0 to 50°C (32 to 122°F); RH 100% IP67
	Battery Type/Life	1.5V AA batteries (4) ? approximately 360 hours of continuous use without backlight (50 hours with backlight)
	Dimensions/Weight	185 x 93 x 35.2mm (7.3 x 3.6 x 1.4") / 400 g (14.2 oz.)

HPLC Servicing, Validation, Trainings and Preventive Maintenance:

HPLC Servicing :We have team of service engineers who can attend to any make of HPLC promptly @the most affordable cost.

Trainings :We also take up preventive Maintenace to reduce downtime of HPLC's

AMC's/CMC :We offer user training both in-House and at customer sites on HPLC principles, operations, troubleshooting.

Validations :We have protocols for carrying out periodic Validations as per GLP/GMP/U SFDA norms
Instruments :We offer instruments / Renting Services Modules like pumps, detector etc. on Rent.





About Analytical Technologies

Analytical Technologies is synonymous for offering technologies for doing analysis and is the Fastest Growing Global Brand having presence in at least 96 countries across the globe. Analytical Technologies Limited is an ISO :9001 Certified Company engaged in Designing, Manufaturing, Marketing & providing Services for the Analytical, Chromatography, Spectroscopy, Bio Technology, Bio Medical, Clinical Diagnostics, Material Science & General Laboratory Instrumentation. Analytical Technologies, India has across the Country operations with at least 4 Regional Offices, 6 Branch Offices & Service Centers. Distributors & Channel partners worldwide.

Our Products And Technologies



UV/VIS Spectro 2060+ Double Beam



FTIR



Gas Chromatograph 3000



Gas Chromatograph 2979 Plus



Flash Chromatograph



Atomic Absorption Spectrophotometer



Liquid Partical Counter



Optical Emission Spectrophotometer



DSC/TGA



NOVA 2020 plus Automated Bio Chemistry Analyzer



HEMA 2020 Hematology Analyzer



Micro Plate Reader/Washer



URINOVA 2800 Urine Analyzer



Total Organic Carbon



Fully Automated CLIA



NOVA Basic Semi -Auto Chemistry Analyzer



PCR/Gradient PCR/ RTPCR



Blood Gas Analyzer



Random access Analyzer for immunoassay Proteins & clinical chemistry



Semen Analyzer



Water purification system



Regulatory compliances



Corporate Social Responsibility



Analytical Foundation is a nonprofit organizat (NGO) found for the purpose of:

- 1.Research & Innovation Scientist's awards / QC Professional Award : Quality life is possible by innovation only and the innovation is possible by research only, hence ANALYTICAL FOUNDATION is committed to identify such personallities for their contributions across various field of Science and Technoligy and awarding them yearly. To participate for award, send us your details of research / testing / publication at Info@analyticalfoundation.org
- 2. Improving quality of life by offering YOGA Training courses, Work shops / Seminars etc.
- 3. ANALYTICAL FOUNDATION aims to DETOXIFY human minds, souls and body by means of yoga, Meditation, Ayurveda, Health Care, Awards, Media, Events, Camps

Reach us @





Technologies Limited

HPLC Solutions MultipleLabs Analytical Bio-Med **Analytical Distributors**

Corporate & Regd. Office: Analytical House, # E67 & E68, Ravi Park, Vasna Road, Baroda, Guiarat 390 015, INDIA

T: +91 265 2253620 +91 265 2252839 +91 265 2252370 F: +91 265 2254395 E: info@hplctechnologies.com info@multiplelabs.com info@analyticalgroup.net info@analyticalbiomed.com

W. www.ais-india.com www.analycalgroup.net www.hplctechnologies.com www.multiplelabs.com

Analytical Foundation (Trust)

Sales & Support Offices: across the country: Distributors & Channel partners World Wide