

pH51/pH52/pH53/ORP50

Microprocessor Waterproof pH/ORP/Temp Meters

Sharp waterproof Testers are designed for all applications. Their IP67 waterproof casings and double junction replaceable electrodes make them suitable also for heavy duty applications, such as wastewater treatment and agriculture.

The modular design allows easy electrode and battery replacement.

Manual calibration on the pH51 prolongs the battery life up to 1500 hours.

pH51 and pH52 have a 0.1 pH resolution while pH53 has 0.01 pH resolution.

ORP50 reads ORP with a resolution of 1 mV. Choose your pH, ORP, Temp tester according to the proper pH, ORP, Temp ranges for your application:

- **pH51:** 0.0 to 14.0 pH;
- **pH52:** -2.0 to 16.0 pH, -5.0 to 60.0°C;
- **pH53:** -2.00 to 16.00 pH, -5.0 to 60.0°C;
- **ORP50:** ±1000 mV.



Specifications		 pH51	 pH52	 pH53	 ORP50
Range	pH/ORP Temp	0.0 to 14.0 pH	-2.0 to 16.0 pH -5.0 to 60.0°C / 23.0 to 140.0°F	-2.00 to 16.00 pH -5.0 to 60.0°C / 23.0 to 140.0°F	±1000 mV
Resolution	pH/ORP Temp	0.1 pH	0.1 pH 0.1°C / 0.1°F	0.01 pH 0.1°C / 0.1°F	1 mV
Accuracy (@25°C)	pH/ORP Temp	±0.1 pH	±0.1 pH ±1°C / ±2°F	±0.02 pH ±1°C / ±2°F	±2 mV
Typical EMC Deviation	pH Temp	±0.1 pH	±0.1 pH ±0.2°C / ±0.4°F	±0.03 pH ±0.2°C / ±0.4°F	±2 mV
Temperature Compensation			automatic	automatic	
Calibration		manual, at 2 points through trimmers	automatic, 1 or 2 points	automatic, 1 or 2 points	factory calibrated
Adj.offset trimmer					±120 mV
pH Electrode		MA73600 (replaceable)	MA73047 (replaceable)	MA73047 (replaceable)	MA73500 (replaceable)
ORP Electrode					MA73500 (replaceable)
Environment		0 to 50°C, max RH 100%	-5 to 60°C; max RH 100%	-5 to 60°C; max RH 100%	0 to 50°C; max RH 100%
Battery Type		3 x 1.5V, alkaline	3 x 1.5V; alkaline (included)	3 x 1.5V; alkaline (included)	3 x 1.5V, alkaline (included)
Battery Life		More than 1500 hours of continuous use	approx. 200 hours	approx. 200 hours	approx. 1000 hours of continuous use
Dimensions		165 x 30 x 30 mm	165 x 30 x 30 mm	165 x 30 x 30 mm	165 x 30 x 30 mm
Weight		80 g	80 g	80 g	85 g

Accessories

- MA73047 Replaceable pH electrode with built-in temperature sensor
- MA73500 Replaceable ORP electrode
- MA73600 Replaceable pH electrode
- M10004B pH 4.01 buffer solution 20 mL sachet (25 pcs)
- M10007B pH 7.01 buffer solution 20 mL sachet (25 pcs)



- M10010B pH 10.01 buffer solution 20 mL sachet (25 pcs)
- MA9015 Electrode storage solution, 230 mL
- MA9016 Electrode cleaning solution, 230 mL
- MA9020 200/275 mV ORP solution, 230 mL bottle
- M10000B Electrode rinse solution, 20 mL sachet (25 pcs)

Ordering Information

All waterproof testers are supplied in a leather casing complete with calibration solution, batteries, instruction manual and screwdriver (only pH51) for calibration.

ORP50 is supplied in a leather casing complete with batteries and instruction manual.