

pH51/pH52/pH53/ORP50

Microprocessor Waterproof pH/ORP/Temp Meters

- ATC
- IP67
- Points 2
- Self diagnostics
- CE



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)	
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.