

MP METERS



Applications

- Drinking Water
- Field Use
- Industrial Water
- Power
- Salt Water
- Wastewater

Multi-parameter, probeless meters allow rapid spot checks of clean water applications and tap sampling.

Hach's MP Meters offer single-handed operation for clean water applications, thanks to their probe-free design.

Go Probeless!

Hach's MP Meters work without probes, allowing rapid testing of pH, ORP (Oxidation Reduction Potential)/Redox, conductivity, resistivity, Total Dissolved Solids (TDS) and temperature. The instruments use integrated sample cups for efficient, high-throughput testing.

Simple, One-Handed Operation

MP Meters operate easily with just one hand. Whether in the lab, plant, or in a remote field location, measurement takes only two steps: 1. Fill the cell cup and 2. Push a parameter key to take the reading.

Infrequent Calibration

Achieve reliable readings without repetitious calibration. Typical calibration frequency ranges from every two weeks to monthly, depending on parameter and individual testing needs.

Superior Accuracy

MP Meters use an advanced four-electrode conductivity cell technology, a unique, replaceable pH/ORP sensor, and powerful microprocessor-based circuitry to deliver high performance with a superior accuracy of $\pm 1\%$. Pre-programmed common salt profiles in every instrument provide unsurpassed accuracy for conductivity, resistivity, and TDS measurements across a wide variety of sample matrices.

Field Reliable

An auto-shutoff maximizes battery life. In addition to longer operation time, MP Meters maintain data integrity thanks to a non-volatile microprocessor that backs up measurement data and retains calibration and memory data, even during a battery change. MP Meters are also waterproof, buoyant, and fully operational after immersion up to 1 meter (3 feet).

Flexible Communication

The optional USB-powered MP-Dock Accessory Package and MP DataLink Software reduce data logging time and errors, and allow fast, easy download with the flexibility to export as a .CSV file.



Specifications*

Power	9V alkaline battery
Battery Life	>100 hours (5000 readings)
Display	4-digit Liquid Crystal Display (LCD)
Ratings	IP67/NEMA 6; Waterproof to 1 meter/3 feet
Operating/Storage Temperature	0 to 55°C (32 to 132°F)
Cell Capacity	pH/ORP: 1.2 mL (0.04 oz.) Conductivity/TDS/Resistivity: 5 mL (0.2 oz)
Case/Conductivity Cell Material	VALOX®†
Dimensions	196 x 68 x 64 mm (7.7 x 2.7 x 2.5 in)
Weight	352 g (12.4 oz)

Conductivity

Range	0–9999 µS/cm, 10–200 mS/cm in 5 autoranges
Resolution	0.01(<100 µS), 0.1(<1000 µS), 1.0(<10 mS), 0.01(<100 mS), 0.1(<200 mS)
Accuracy	±1% of reading
Auto Temperature Compensation	0 to 71°C (32 to 160°F)
Adjustable Temperature Compensation to 25°C	0–9.99%/°C
Conductivity/TDS Ratios Preprogrammed	KCl, 442‡, NaCl
Adjustable Conductivity/TDS Ratio Factor	0.20–7.99

TDS

Range	0–9999 ppm, 10–200 ppt in 5 autoranges
Resolution	0.01(<100 ppm), 0.1(<1000 ppm), 1.0(<10 ppt), 0.01(<100 ppt), 0.1(<200 ppt)
Accuracy	±1% of reading
Auto Temperature Compensation	0 to 71°C (32 to 160°F)
Adjustable Temperature Compensation to 25°C	0–9.99%/°C
Conductivity/TDS Ratios Preprogrammed	KCl, 442‡, NaCl
Adjustable Conductivity/TDS Ratio Factor	0.20–7.99

Mineral/Salt

Range	0–9999 ppm, 10–200 ppt in 5 autoranges
Resolution	0.01 (<100 ppm), 0.1 (<1000 ppm), 1.0 (<10 ppt), 0.01 (<100 ppt), 0.1 (<200 ppt)
Accuracy	±1% of reading
Auto Temperature Compensation	0 to 71°C (32 to 160°F)
Adjustable Temperature Compensation to 25°C	0–9.99%/°C
Conductivity/TDS Ratios Preprogrammed	KCl, 442‡, NaCl
Adjustable Conductivity/TDS Ratio Factor	0.20–7.99

Resistivity

Range	10 KΩ–30 MΩ
Resolution	0.01(<100 KΩ), 0.1(<1000 KΩ), 0.1(>1 MΩ)
Accuracy	±1% of reading
Auto Temperature Compensation	0 to 71°C (32 to 160°F)
Adjustable Temperature Compensation to 25°C	0–9.99%/°C

pH

Range	0–14 pH
Resolution	0.01 pH
Accuracy	±0.01 pH
Auto Temperature Compensation	0 to 71°C (32 to 160°F)

ORP

Range	±999 mV
Resolution	1 mV
Accuracy	±1 mV

Temperature

Range	0 to 71°C (32 to 160°F)
Resolution	0.1°C/F
Accuracy	±0.1°

*Subject to change without notice.

† VALOX is a trademark of SABIC Innovative Plastics IP BV

‡ 442 Natural Water Standard is a trademark of Myron L Company

MP Meters Model Selection Guide

Parameters	MP-4	MP-6p	MP-6
pH		■	■
ORP		■	■
Conductivity	■	■	■
Resistivity	■		■
TDS	■	■	■
Mineral/Salt		■	
Temperature	■	■	■
Features			
Autoranging	■	■	■
Adjustable Temperature Compensation	■	■	■
Memory	100 readings	100 readings	100 readings
Date & Time Stamp	■	■	■
pH Calibration Prompts		■	■
Low battery indicator	■	■	■
Auto-off	■	■	■

Ordering Information

Essentials Packages

- HMP4EP** MP-4 Portable Meter, hard-sided case, and 50 mL NaCl, KCl, and 442™ standard solutions for calibration
- HMP4EPD** MP-4 Portable Meter, MP-Dock, hard-sided case, and 50 mL NaCl, KCl, and 442™ standard solutions for calibration
- HMP6PEP** MP-6p Portable Meter with pH storage solution, hard-sided case, 50 mL NaCl, KCl, and 442™ standard solutions, and 50 mL pH buffer set for calibration.
- HMP6PEPD** MP-6p Portable Meter with pH storage solution, MP-Dock, hard-sided case, 50 mL NaCl, KCl, and 442™ standard solutions, and 50 mL pH buffer set for calibration.
- HMP6EP** MP-6 Portable Meter with pH storage solution, hard-sided case, 50 mL NaCl, KCl, and 442™ standard solutions, and 50 mL pH buffer set for calibration.
- HMP6EPD** MP-6 Portable Meter with pH storage solution, MP-Dock, hard-sided case, 50 mL NaCl, KCl, and 442™ standard solutions, and 50 mL pH buffer set for calibration.

Meters Only

- HMP4** MP-4 Portable Meter
- HMP6P** MP-6p Portable Meter with pH storage solution
- HMP6** MP-6 Portable Meter with pH storage solution

Accessories

- HMPDOCK** MP-Dock Accessory Package (includes MP DataLink software)
- HMPCASE** Hard-sided case for MP Portable Meter, MP-Dock, and up to six 50 mL standard solutions
- 2975126** Acid electrode cleaning solution, 50 mL pour-top

Continued on next page.

Ordering Information *continued*

Standard Solutions

Sodium Chloride

2971826	49 mg/L NaCl (100 μ S/cm), 50 mL pour-top
2971849	49 mg/L NaCl (100 μ S/cm), 500 mL
1440026	491 mg/L NaCl (1,000 μ S/cm), 50 mL pour-top
1440049	491 mg/L NaCl (1,000 μ S/cm), 500 mL
2972226	5,370 mg/L NaCl (10,000 μ S/cm), 50 mL pour-top
2972249	5,370 mg/L NaCl (10,000 μ S/cm), 500 mL
2307426	10,246 mg/L NaCl (18,000 μ S/cm), 50 mL pour-top
2307449	10,246 mg/L NaCl (18,000 μ S/cm), 500 mL

Potassium Chloride

2974226	74.55 mg/L (0.001M) KCl (146.9 μ S/cm), 50 mL pour-top
2974249	74.55 mg/L (0.001M) KCl (146.9 μ S/cm), 500 mL
2974326	745.5 mg/L (0.01M) KCl (1,412 μ S/cm), 50 mL pour-top
2974349	745.5 mg/L (0.01M) KCl (1,412 μ S/cm), 500 mL
2974426	7,455 mg/L (0.1M) KCl (12,890 μ S/cm), 50 mL pour-top
2974449	7,455 mg/L (0.1M) KCl (12,890 μ S/cm), 500 mL

442™ Natural Water Standards

2974526	30 ppm TDS (46.7 μ S/cm), 50 mL pour-top
2974549	30 ppm TDS (46.7 μ S/cm), 500 mL
2974626	300 ppm TDS (445 μ S/cm), 50 mL pour-top
2974649	300 ppm TDS (445 μ S/cm), 500 mL
2974726	1,000 ppm TDS (1417 μ S/cm), 50 mL pour-top
2974749	1,000 ppm TDS (1417 μ S/cm), 500 mL
2974826	3,000 ppm TDS (3,960 μ S/cm), 50 mL pour-top
2974849	3,000 ppm TDS (3,960 μ S/cm), 500 mL

pH Buffer Solutions

2283426	pH 4.01 color-coded red buffer solution, 50 mL pour-top
2283449	pH 4.01 color-coded red buffer solution, 500 mL
2283526	pH 7.00 color-coded yellow buffer solution, 50 mL pour-top
2283549	pH 7.00 color-coded yellow buffer solution, 500 mL
2283626	pH 10.01 color-coded blue buffer solution, 50 mL pour-top
2283649	pH 10.01 color-coded blue buffer solution, 500 mL

Replacement Parts

HMPSENS Replacement pH/ORP sensor for MP-6 and MP-6p meters



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In the interest of improving and updating its equipment,

Hach Company reserves the right to alter specifications to equipment at any time.

