MP Meters

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

Features and Benefits

DW

PW

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 vs. external probes.

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 individual testing needs. To calibrate, simply press one button and adjust the instrument to the standard's value. With the exception of factory-set temperature, all parameters feature an internal electronic setting that can be used for field calibration and as a quick check on pH/ORP sensor life.

Superior Accuracy

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

Fully automatic temperature compensation is also provided in these instruments. Users may even adjust the temperature compensation or disable the feature for specific applications. When measuring solution types not contained in the microprocessor, a user-adjustable conductivity/TDS conversion ratio gives greater measurement accuracy.

Field Reliable

An auto-shutoff maximizes battery life to more than 100 hours (~5000 tests). 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 of data. MP DataLink provides automatic organization of data (record number, type of measurement, value and unit measurement, solution type, temperature, date and time stamp), with the flexibility to export as a .CSV file.

DW = drinking water WW = wastewater municipal PW = pure water / power
IW = industrial water E = environmental C = collections FB = food and beverage

HACH ®

Be Right™

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 to132°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 to160°F)
Adjustable Temperature Compensation to 25ºC: 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 25ºC: 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 25ºC: 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 25ºC: 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°C

† VALOX is a trademark of SABIC Innovative Plastics IP BV
‡ 442 Natural Water Standard is a trademark of Myron L Company

*Specifications subject to change without notice.

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

Ordering Information continued

Standard Solutions

Sodium Chloride

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

Potassium Chloride

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

442 Natural Water Standards

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

For current price information, technical support, and ordering assistance, contact the Hach office or distributor serving your area.

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