# MW600

## Entry level, inexpensive Dissolved Oxygen Portable Meter for fast and reliable results

The **MW600** is a compact Portable Dissolved Oxygen meter with Faster Micro Processor. This handy and ergonomically designed portable meter is ideal for anyone working on a low budget and still requires fast and reliable measurements. This portable meter measures Dissolved Oxygen with a Polarographic probe and is suitable for a wide range of applications, such as Educational and Aquaculture, as well as water and environmental analysis.

Other features include smaller, ergonomic and lighter case design, 100% larger and easier to read LCD Display, low battery warning, easy to replace screw on cap membranes and long battery life.

Rugged Carrying Case (Optional) provides handy on-site meter calibration and measurements.

**MW600** is supplied complete with a MA840 D.O. polarographic probe with 3 m cable, calibration screwdriver, 2 spare membranes, MA9071 (30 mL) electrolyte solution, battery and instructions.

The **MW600** calibrates easily in 2 points (at 100% saturated air and in 0 Oxygen solution) and has Automatic Temperature Compensation which guarantees the highest accuracy.

| Specifications | | MW600 |
|---|---|---|
| Range | $O_2$ | 0.0 to 19.8 mg/L |
| Resolution | $O_2$ | 0.1 mg/L |
| Accuracy (@25°C) | $O_2$ | ±1.5% Full Scale |
| Calibration | | manual on 2 points (zero and slope) |
| Temperature Compensation | | automatic from 0 to 30°C |
| Probe | | **MA840** (included) |
| Environment | | 0 to 50°C / 32 to 122°F; max RH 95% |
| Battery Type | | 9V alkaline (included) |
| Battery Life | | approximately 70 hours of use |
| Dimensions | | 145 x 80 x 40 mm |
| Weight | | 220 g (with battery) |

### Large and Easy-to-read Display

**MW600** offers highly stable and accurate readings with large LCD display.

**ALTITUDE & SALINITY COMPENSATION:**
If the sample contains salts or if you are performing the measurements at altitude different from sea level, the readout values must be corrected, taking into account the lower degree of oxygen solubility.

Altitude Compensation: all the readouts are referred to sea level, thus the displayed measurements are higher than the actual values. In fact, altitude affects D.O. concentration by decreasing its value.

The table on the left reports the oxygen solubility at various temperatures and altitudes, based on sea level barometric pressure of 760 mmHg.

This gives an idea of the error that can be introduced at different altitudes and allows to calculate the quantity to be subtracted to correct the reading.

| Altitude, Meters above Sea Level | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| °C | 0 m | 300 m | 600 m | 900 m | 1200 m | 1500 m | 1800 m | °F |
| 0 | 14.6 | 14.1 | 13.6 | 13.2 | 12.7 | 12.3 | 11.8 | 32.0 |
| 2 | 13.8 | 13.3 | 12.9 | 12.4 | 12.0 | 11.6 | 11.2 | 35.6 |
| 4 | 13.1 | 12.7 | 12.2 | 11.9 | 11.4 | 11.0 | 10.6 | 39.2 |
| 6 | 12.4 | 12.0 | 11.6 | 11.2 | 10.8 | 10.4 | 10.1 | 42.8 |
| 8 | 11.8 | 11.4 | 11.0 | 10.6 | 10.3 | 9.9 | 9.6 | 46.4 |
| 10 | 11.3 | 10.9 | 10.5 | 10.2 | 9.8 | 9.5 | 9.2 | 50.0 |
| 12 | 10.8 | 10.4 | 10.1 | 9.7 | 9.4 | 9.1 | 8.8 | 53.6 |
| 14 | 10.3 | 9.9 | 9.6 | 9.3 | 9.0 | 8.7 | 8.3 | 57.2 |
| 16 | 9.9 | 9.7 | 9.2 | 8.9 | 8.6 | 8.3 | 8.0 | 60.8 |
| 18 | 9.5 | 9.2 | 8.7 | 8.6 | 8.3 | 8.0 | 7.7 | 64.4 |
| 20 | 9.1 | 8.8 | 8.5 | 8.2 | 7.9 | 7.7 | 7.4 | 68.0 |
| 22 | 8.7 | 8.4 | 8.1 | 7.8 | 7.7 | 7.3 | 7.1 | 71.6 |
| 24 | 8.4 | 8.1 | 7.8 | 7.5 | 7.3 | 7.1 | 6.8 | 75.2 |
| 26 | 8.1 | 7.8 | 7.5 | 7.3 | 7.0 | 6.8 | 6.6 | 78.8 |
| 28 | 7.8 | 7.5 | 7.3 | 7.0 | 6.8 | 6.6 | 6.3 | 82.4 |
| 30 | 7.5 | 7.2 | 7.0 | 6.8 | 6.5 | 6.3 | 6.1 | 86.0 |
| 32 | 7.3 | 7.1 | 6.8 | 6.6 | 6.4 | 6.1 | 5.9 | 89.6 |
| 34 | 7.1 | 6.9 | 6.6 | 6.4 | 6.2 | 6.0 | 5.8 | 93.2 |
| 36 | 6.8 | 6.6 | 6.3 | 6.1 | 5.9 | 5.7 | 5.5 | 96.8 |
| 38 | 6.6 | 6.4 | 6.2 | 5.9 | 5.7 | 5.6 | 5.4 | 100.4 |
| 40 | 6.4 | 6.2 | 6.0 | 5.8 | 5.6 | 5.4 | 5.2 | 104.4 |

### Accessories

**MA9070** Zero Oxygen calibration solution, 230 mL bottle
**MA9071** Refilling Electrolyte solution, 230 mL bottle

**MA840** D.O. Probe
**MA841** Spare membrane (5 pcs)

### Ordering Information

**MW600** is supplied complete with MA840 probe, 2 spare membranes, 20 mL bottle of electrolyte solution, calibration screwdriver, 9V battery and instructions.

**Authorized Business Associate:**

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