



Extended Range Bench Dissolved Oxygen Meter



Ideal for testing Dissolved Oxygen in the pharmaceutical and food Industry, as well as monitoring in water treatment plants. The user can choose to measure D.O. readings in mg/L or % of saturation of O₂.

This meter can be used for any type of water, as it allows measurements to compensate for temperature, altitude and salinity factors. The automatic logging interval can be set to perform analysis and store data into the memory.

All logged data can be downloaded to your PC through an RS232 or USB serial port. Memory can store up to 50 samples. **Mi190** features an automatic calibration procedure, at 1 or 2 points (at 0 and 100% of O₂ saturation). The polarographic probe supplied with the meter (MA840) measures the current generated by the reaction of O₂ with Ag.

Mi190 is supplied complete with MA840 DO probe with 3 m cable, 2 spare membranes, MA7041 electrolyte solution (30 mL), 12 VDC power adapter, probe holder and instruction manual.



Polarographic D.O. Probe

Polarographic D.O. probe with 3 meters cable



Rear Connector Panel layout

Communication to the PC is done via opto-isolated USB and RS232 ports.



Ordering Information

- Mi190** is supplied complete with:
- **MA840** DO probe with 3 meter cable
 - **MA841** Spare membrane (2 pcs)
 - **MA9071** Electrolyte solution
 - **Mi5200** Application Software
 - **MA9350** RS232 connection cable with 2 meters cable
 - **MA9310** 12 VDC Adapter
 - Instruction manual

Specifications	Mi190
Range	O ₂ 0.00 to 45.00 mg/L (ppm) % Saturation O ₂ 0.0 to 300% Temp -5.0 to 55.0°C / 23.0 to 131.0°F
Resolution	O ₂ 0.01 mg/L (ppm) % Saturation O ₂ 0.1% Temp 0.1°C / 0.1°F
Accuracy	O ₂ ±1.5 Full Scale % Saturation O ₂ ±1.5 Full Scale Temp ±0.4°C / ±0.8°F
DO Calibration	automatic, 1 or 2 point at 0% (MA9070) and 100% (in air)
Temperature compensation	0.0 to 50.0°C / 32.0 to 122.0°F
Altitude compensation	0 to 4000 m; resolution 100 m
Salinity compensation	0 to 40 g/L; resolution 1 g/L
DO probe	MA840 with DIN connector (included)
Temperature Probe	Included in DO probe
Calibration	2 points (0.0°C and 50.0°C / 32.0 to 122.0°F)
Logging	up to 50 records, LOG on demand or auto-logging
PC interface	RS232 / USB Opto-isolated
Power Supply	12 VDC power adapter (included)
Environment	0 to 50°C / 32 to 122°F; max RH 100%
Dimensions	230 x 160 x 95 mm
Weight	0.9 Kg

Accessories

- MA9070** Zero Oxygen Solution, 230 mL bottle
MA9071 Refilling Electrolyte Solution, 230 mL bottle
MA9310 12 VDC Adapter, 220 V
MA9311 12 VDC Adapter, 110 V

- MA841** Spare membrane (5 pcs)
MA840 DO probe with 3 meters cable
MA9350 RS232 connection cable with 2 m cable
Mi5200 Application Software

