

MARTEK® MARK 21 PORTABLE DISSOLVED OXYGEN ANALYZER

MARTEK INSTRUMENTS INC. MANUFACTURERS OF WATER QUALITY INSTRUMENTATION

...for accurate, in situ measurement of dissolved oxygen down to the ppb range

The Martek Mark 21 Portable Dissolved Oxygen Analyzer is a completely portable instrument capable of monitoring ultra-low levels of dissolved oxygen in high purity process systems. The Mark 21 can be quickly calibrated in the laboratory according to traceable ASTM standards then carried to the sample panel for direct calibration and/or verification of on-line instruments. This light weight analyzer contains its own rechargeable battery power supply, internal clock, memory, and both analog and digital communications port. The Mark 21's large back-lit display provides both temperature and dissolved oxygen data in direct engineering units while its menu-driven software makes calibration and logging of data easy and straightforward.

Other Mark 21 features include:

- **Four autoranging dissolved oxygen measurements (0-20 ppm, 0-2 ppm, 0-200 ppb, 0-20 ppb)**
- **Automatic temperature calibration**
- **Automatic zero calibration for dissolved oxygen**
- **Automatic span calibration for dissolved oxygen in air**
- **Easy-to-maintain sensor includes simple membrane replacement without use of tools**
- **Data storage in non-volatile RAM with RS232 digital output at user-selectable printing intervals**
- **0-1 Volt analog recorder output**
- **Removable carrying strap and built-in stand**



The ability to provide traceable calibration and verification data without the need to obtain grab samples or remove on-line sensors make the Mark 21 ideal for high purity water processes in nuclear and high-performance fossil fuel power plants; condensate polishing systems and demineralizers, semiconductor and pharmaceutical manufacturing plants; and other industrial applications.



MARTEK MARK 21 SPECIFICATIONS

Parameter	Range	Resolution	Accuracy	Sensor Type
Temperature	0 to 50 °C	0.01 °C	±0.1 °C	Thermoliner array
Dissolved Oxygen*	0 to 20 ppb 0 to 200 ppb 0 to 2 ppm 0 to 20 ppm	0.01 ppb 0.1 ppb 0.001 ppm 0.01 ppm	±0.1 ppb ±1.0 ppb ±0.01 ppm ±0.1 ppm	Galvanic cell with automatic temperature compensation

*NOTE: At temperature of calibration.

Power 6 volt internal rechargeable battery pack. 120 or 240 volts AC, 50/60 Hz Battery Charger

Printer Output Serial ASCII RS232C digital output. 0-1 volt DC analog output.

Case Dimensions 6.80 inches (17.27 cm) width x 4.42 inches (11.23 cm) height x 8.60 inches (21.84 cm) depth

Case Weight 8.0 pounds (3.64 kg)

Construction NEMA 12 extruded aluminum enclosure coated to MIL SPECS

ORDERING INFORMATION

P/N

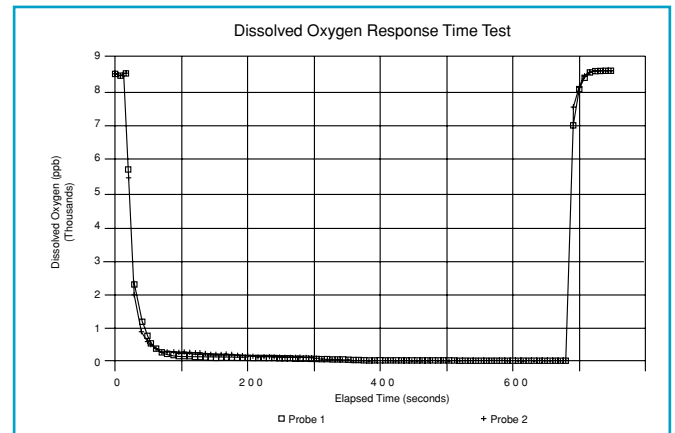
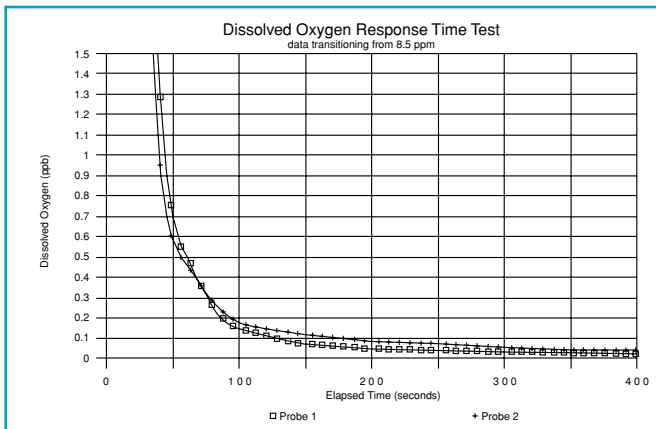
181-10 Mark 21 Portable Dissolved Oxygen Analyzer

181-27 Dissolved Oxygen Sensor

180-51 Type 316 Stainless Steel Flow Chamber

181-25 Carrying Case, Shock Proof

NOTE: All prices FOB Factory and include the following warranties against defects in materials or workmanship: **Analyzer-1 year, Dissolved Oxygen sensor-5 years.** Consult factory for specific warranty information. Specifications and prices subject to change without prior notice.



MARTEK INSTRUMENTS, INC.

P.O. Box 14448 Raleigh, North Carolina 27620 USA

Phone: (800) 628-8834 or (919) 790-2371 Fax: (919) 790-2375

www.martekinstruments.com Email: info@martekinstruments.com