

HI2400

## Dissolved Oxygen Meter

Dissolved Oxygen and Temperature



- **Automatic temperature compensation (ATC)**
- **Calibration**
  - One or two-point calibration at 0% or 100%
- **GLP Features**
  - Meets Good Laboratory Practices
- **Connectivity**
  - PC compatible via USB
- **Interval logging**
  - Data logging and storage up to 8000 samples

### Accurate, Repeatable Measurements

The HI2400 is a dissolved oxygen benchtop meter with automatic calibration and % or mg/L (ppm) measurement range. The measurement is automatically compensated for altitude and salinity based on the user settings for altitude up to 4000 m and salinity up to 40 g/L.

Measurements are automatically temperature compensated by using the polarographic DO probe with built-in temperature sensor. This probe features screw cap membranes for easy replacement.

Calibration is performed at one or two points at 0% using Hanna's HI7040 solution or 100% in air.

### Data Logging

With a built-in logging function, measurements are stored in non-volatile memory, and can be transferred to a PC through the USB

port using the optional HI92000 software and HI920013 USB cable. The software is provided with an exclusive online guide of all the commands available and allows data printing, plotting and exporting.

The 8000 record logging interval allows the possibility of process and experimental monitoring of DO. The logging interval is automatic with user-selectable intervals from 5 seconds to 180 minutes.

### GLP Capabilities

The HI2400 also provides users with GLP (Good Laboratory Practice) capabilities. GLP is a set of functions that allow the storage and retrieval of data regarding calibration. The GLP feature provides data consistency and a calibration reminder which can be set to alert the user that too much time has elapsed since the last calibration and a new one should be performed.



### HI76407 Standard DO Probe

The HI76407 dissolved oxygen probe is extremely rugged, making it ideal for both laboratory and field applications. Calibration is fast and simple, while all DO measurements are temperature compensated. The pre-tensioned, ready-made PTFE membrane can be changed in a matter of seconds without the need to stretch and cut replacements.

Several cable lengths are available.



### HI76408 Thinner DO Probe for Laboratories

The HI76408 DO probe is rugged and perfect for both laboratory and field applications. Calibration is fast and simple, and measurements are temperature compensated. The sensitive PTFE membrane can be changed in a few seconds.

Available in 1 m (3.3') cable length..



### HI76407A/P Easy, Screw Cap DO Membranes

Carry Extras for Assurance

Pretensioned PTFE membranes are easily replaced using these screw on cap replacements. Should a pin hole or stretching occur, have replacements on hand.

| Specifications              |  | HI2400   |
|-----------------------------|--|--|
| Dissolved Oxygen            | Range  | 0.00 to 45.00 mg/L (ppm); 0.0 to 300.0% saturation   |
|                             | Resolution   | 0.01 mg/L (ppm); 0.1% saturation   |
|                             | Accuracy   | ±1.5% FS   |
|                             | Calibration  | one or two points at 0% (HI7040 solution) and 100% (in air)  |
| Temperature                 | Range  | 0.0 to 50.0°C  |
|                             | Resolution   | 0.1°C  |
|                             | Accuracy   | ±0.2°C (excluding probe error)   |
|                             | Altitude Compensation  | 0 to 4000 m (with 100 m resolution)  |
|                             | Salinity Compensation  | 0 to 40 g/L (ppt) (with 1 g/L resolution)  |
|                             | Temperature Compensation   | automatic from 0.0 to 50.0°C (32.0 to 122°F)   |
|                             | Probe  | HI76407/2 polarographic DO probe with internal temperature sensor, DIN connector and 2 m (6.6') cable (included) |
|                             | Logging Interval   | 5, 10, 30 seconds or 1, 2, 5, 10, 15, 30, 60, 120, 180 minutes   |
|                             | PC Connection  | opto-isolated USB  |
|                             | Power Supply   | 12 VDC adapter   |
|                             | Environment  | 0 to 50°C; RH max 95%  |
|                             | Dimensions   | 235 x 222 x 109 mm (9.2 x 8.7 x 4.3")  |
|                             | Weight   | 1.3 kg (2.9 lbs.)  |
| <b>Ordering Information</b> | <b>HI2400-01</b> (115V) and <b>HI2400-02</b> (230V) are supplied with HI76407/2 dissolved oxygen probe, HI76407A membrane caps (2), HI7041S electrolyte solution (30 mL), 12 VDC adapter and instructions. |  |

DO solutions and accessories begin on page 7.21