

# Dissolved Oxygen Controller

with Extended Range and Analog Output

- 0.5 to 5.0 mg/L (ppm) O<sub>2</sub> alarm range
- Automatic temperature compensation

The HI8410 is a panel mounted dissolved oxygen controller that is used to maintain and monitor the concentration of DO in a wide range of industrial process applications. The HI8410 uses a Galvanic probe that typically requires less maintenance than a Polarographic style making it ideal for long term monitoring.

The set point for controlling the activation of a relay is adjusted manually by the user. An alarm relay is also manually adjustable and is based upon a tolerance from the programmed setpoint. This controller features single set point calibration in zero oxygen solution.

The D.O. probe is provided with a membrane covering the galvanic sensor and a built-in thermistor for temperature measurement and compensation.



## Specifications

## HI8410

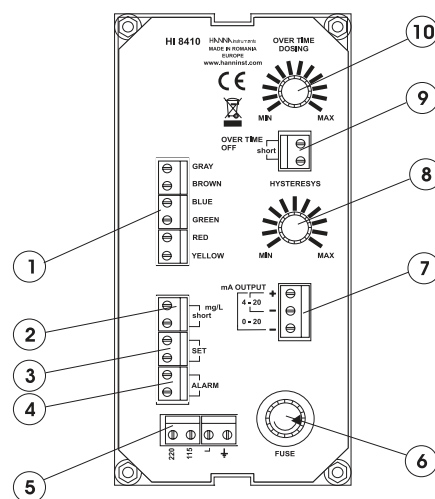
Range	0.0 to 50.0 mg/L (ppm) O <sub>2</sub> ; 0 to 600 % O <sub>2</sub> ; -5.0 to 50.0°C
Resolution	0.1 mg/L (ppm) or 1% (O <sub>2</sub> ) / 0.1°C
Accuracy (@25°C/77°F)	±1% of reading (O <sub>2</sub> ) / ±0.2°C
Calibration	manual, one point, in saturated air
Temp. Compensation	automatic, from -5 to 50°C (23 to 122 °F)
Salinity Compensation	0 to 51 g/L (resolution 1 g/L)
Probe (not included)	HI76410/4 with 4 m (13.1') cable or HI76410/10 with 10 m (32.8') cable
Recorder Output	0 to 20 mA or 4 to 20 mA (isolated)
Set point and Alarm Relay	1, isolated, 2A, max. 240V, resistive load, 1,000,000 strokes
Set point Range	5 to 600 % O <sub>2</sub> ; 0.5 to 50.0 mg/L (ppm) O <sub>2</sub>
Alarm Range	0.5 to 5.0 mg/L (ppm) O <sub>2</sub>
Hysteresis Range	0.5 to 2.4 mg/L (ppm) O <sub>2</sub>
Dosing Control	OFF/AUTO/ON with selection switch
Over Dosing Control	adjustable, from 5 min to 60 min with knob or disable by wire strap - on rear panel
Backlight	continuous on
Power Supply	115 VAC ±10% or 230 VAC ±10%; 50/60 Hz
Enclosure	flame retardant ABS body and front panel; transparent splash-proof front cover
Environment	-10 to 50°C (14 to 122°F); RH max 95% non-condensing
Panel Cutout	141 x 69 mm (5.6 x 2.7")
Weight	1 kg (2.2 lb.)

## Ordering Information

The **HI8410** is supplied complete with mounting brackets and instructions.

## Probes and Accessories

<b>HI76410/4</b>	Galvanic DO probe (fixed) with internal temperature sensor, DIN connector and 4 m (13.1') cable
<b>HI76410/10</b>	Galvanic DO probe (fixed) with internal temperature sensor, DIN connector and 10 m (32.8') cable
<b>HI76410A</b>	Spare membranes for HI76410



1. DO probe connection terminals
2. Range selection: mg/L or % DO
3. SET terminals for connection to a dosing pump
4. ALARM terminals for connection to an external alarm device
5. Power supply terminals
6. Fuse holder
7. mA OUTPUT terminals for connection to a recorder
8. Hysteresis set knob (0.5 to 2.4 mg/L)
9. Disable overtime dosing connection
10. Overtime dosing set knob (about 5 to 60 min)

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