

Dissolved Oxygen Controller

with Extended Range and Analog Output

- 0.5 to 5.0 mg/L (ppm) O₂ 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.

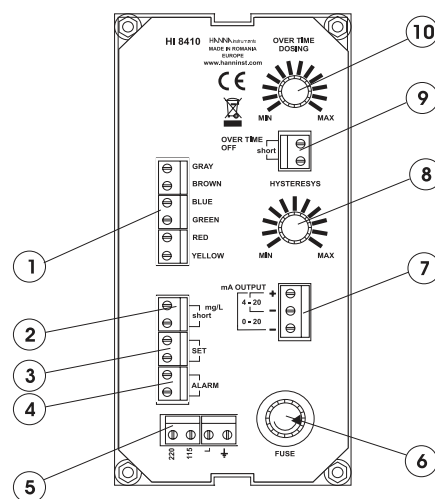
The set point for controlling the activation of a relay is adjusted manually by the user. An alarm relay is also manually adjustable and is based upon a tolerance from the programmed setpoint. This controller features single set point calibration in zero oxygen solution.

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 ₂ ; 0 to 600 % O ₂ ; -5.0 to 50.0°C						
Resolution	0.1 mg/L (ppm) or 1% (O ₂) / 0.1°C						
Accuracy (@25°C/77°F)	±1% of reading (O ₂) / ±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 ₂ ; 0.5 to 50.0 mg/L (ppm) O ₂						
Alarm Range	0.5 to 5.0 mg/L (ppm) O ₂						
Hysteresis Range	0.5 to 2.4 mg/L (ppm) O ₂						
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	<table border="1"> <tbody> <tr> <td>HI76410/4</td> <td>Galvanic DO probe (fixed) with internal temperature sensor, DIN connector and 4 m (13.1') cable</td> </tr> <tr> <td>HI76410/10</td> <td>Galvanic DO probe (fixed) with internal temperature sensor, DIN connector and 10 m (32.8') cable</td> </tr> <tr> <td>HI76410A</td> <td>Spare membranes for HI76410</td> </tr> </tbody> </table>	HI76410/4	Galvanic DO probe (fixed) with internal temperature sensor, DIN connector and 4 m (13.1') cable	HI76410/10	Galvanic DO probe (fixed) with internal temperature sensor, DIN connector and 10 m (32.8') cable	HI76410A	Spare membranes for HI76410
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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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