

# BI-680 Industrial Dissolved Oxygen Controller



## Features

- 1 or 2 points calibration using the air-saturated water or zero oxygen solution
- Salinity and barometric pressure compensations eliminate the measurement errors
- Automatic temperature compensation ensures accurate readings over the entire range
- Setup menu allows setting the number of calibration points, measurement unit, alarm limits, hysteresis value, 4 to 20 mA output, etc.
- Reset function automatically restores all settings to the factory defaults



## Ordering Information

BI-680: Controller, IE-80T industrial dissolved oxygen electrode, electrolyte solution, membrane cap

## Specifications

|               | Model                          | BI-680                                  |
|---------------|--------------------------------|---|
| DO            | Range                          | 0.00...20.00 mg/L                       |
|               | Resolution                     | 0.01                                    |
|               | Accuracy                       | ±0.5 mg/L                               |
| % Saturation  | Range                          | 0.0...200.0%                            |
|               | Resolution                     | 0.1                                     |
|               | Accuracy                       | ±2.0%                                   |
| Temperature   | Range                          | 0...60°C/32...140°F                     |
|               | Resolution                     | 0.1                                     |
|               | Accuracy                       | ±1°C/±1.8°F                             |
|               | Offset Calibration             | 1 point, reading ±10°C                  |
| Communication | Signal Output                  | 4...20 mA                               |
|               | Load                           | Max. 500 Ω                              |
|               | Low or High Alarm              | 0.00...20.00 mg/L, selectable           |
|               | Communication Interface        | RS485                                   |
|               | Connection Terminals           | Detachable screw terminals              |
| General       | Dissolved Oxygen Calibration   | 1...2 points                            |
|               | Temperature Compensation       | 0...40°C, automatic                     |
|               | Barometric Pressure Correction | 60.0...112.5 kPa/450...850 mmHg, manual |
|               | Salinity Correction            | 0.0...35.0 g/L, manual                  |
|               | Power Supply                   | DC 24V                                  |
|               | Dimensions                     | 96(L)×96(W)×75(H) mm                    |
| Weight        | 350 g                          |   |