

# Electrochemical Monitors

## OD 7685.010

Autoclean Dissolved Oxygen controller



Add the following to the common Features/Specifications of the 7685 Series shown overleaf

- **Applications:**
  - water treatment
  - activated sludge
  - de-nitrification
  - fish pond
- **Input from galvanic cell**
- **Scales: PPM - mg/l - % air sat. - mmHg**
- **Autoranging**
- **Temperature readout in °C or °F**
- **Dual filter software**
- **Calibration parameters display**
- **Dual set-point and alarm conditions display**
- **Autocalibration in air**
- **Automatic or manual temperature compensation**
- **Pressure, R.H., salinity compensation**
- **Dual isolated output:**
  - 0/20 mA or 4/20 mA selectable
  - programmable input on the span
- **Automatic or manual operation**
- **Dual set-point with hysteresis, delay, and min/max programmable functions**
- **Autoclean relay and holding function for input and outputs**
- **EEPROM parameters storage**
- **Automatic overload protection and reset**
- **Extractable terminal block**
- **96x96 (1/4 DIN) housing**

## Specifications

### \* Galvanic cell

membrane: 1 mil - 2 mil - 5 mil (5 mil standard)  
cable length: 15 m

### \* Scales

0/400 - 0/200.0 - 0/20.00 mmHg  
0/400 - 0/200.0 - 0/20.00 % air saturation  
0/40.0 - 0/20.0 PPM - 0/2000 PPB  
0/40.0 - 0/20.00 mg/l - 0/2000 µgr/l

\* Software filter 90%RT: 0.5/50.0 s for small/large variations  
Zero: ± 1 mV  
Sensitivity: 62.5/212.5 %

### Temperature

measuring and compensation range: +2/+52 °C or 28,4/125,5 °F  
Zero: ± 2 °C or ±3,6 °F  
Input: Pt100 3 wires

### Temperature compensation

Internal table for each membrane type  
Reference temperature: 20 °C or 68 °F  
Manual compensation: 0/50.0 °C or 32/122 °F

### Secondary parameters

Pressure: 500/800 mmHg  
Salinity: 0/60,000 PPM  
Relative humidity: 0/100 %

### Analog outputs

Dual isolated for D.O and temperature

### Set points

Dual with ON/OFF programmable functions

### \* Autoclean function

Disable - manual - auto + manual  
\* Repetition cycle: 0.1/24 hours  
\* Number of cycles: from 1 to 10  
\* Compressor time: 0.5/60.0 sec.  
\* Discharge time: 0.5/10.0 sec.  
\* Holding time: 0/20.0 min. (for measuring, outputs, relays)

### Option 091.4143

9/36 VDC power supply

*The technical specifications may be changed without notice*

## Probes and accessories

This instrument uses the OD 8182 dissolved oxygen probe.

It is normally installed in the OD 8112 autoclean assembly