

## PH 7685 pH/ORP controller



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

- **Applications:**
  - water treatment
  - food industry
  - drinking water
  - swimming pool
  - biotechnology
- **Input from:**
  - pH electrode (Glass or Antimony)
  - ORP electrode
  - Pt100 3 wires
- **Temperature readout**
- **Calibration parameters display**
- **Set-point and alarm conditions display**
- **Automatic or manual temperature compensation**
- **Operating mode: automatic and manual**
- **0/20 mA or 4/20 mA programmable isolated output**
- **Dual set-points with hysteresis, delay and min/max programmable functions**
- **Min/max and set-points timing alarm relay**
- **Continuous/flashing alarm**
- **EEPROM parameters storage**
- **Automatic overload protection and reset**
- **Extractable terminal blocks**
- **96X96 (1/4" DIN) housing**

## Specifications

### Sensors type

Glass pH - Antimony pH - ORP - 080102.1 preamplifier  
RTD Pt 100 3 wires

### Glass electrode

Zero: 0.0 mV at pH 7  $\pm 2$  pH  
Slope: 59.16 mV/pH at 25 °C 80/110 %

### Antimony electrode

Zero: -325 mV at pH 7  $\pm 2$  pH  
Slope: 50 mV/pH at 25 °C 70/140 %

### ORP electrode

Zero adjustment:  $\pm 100$  mV  
Sens. adjustment: 80/110 %

### Input scales

- \* pH: 0.00/14.00  $\pm 0.01$  pH
- \* ORP: -1000/+1000 mV  $\pm 1$  mV
- \* Software filter 90%RT: 0.4/20.0 s for small/large variations

### Temperature

Measuring and compensation range: -10/+110 °C  
Resolution:  $\pm 0.1$  °C  
Zero adjustment:  $\pm 2$  °C  
Manual Temp. comp: -10.0/110.0 °C

### Option 091.211

Set-point A/B selectable actions: ON/OFF - PFM - PWM

### PFM action

Proportional band: 0.00/1.50 pH (0/150 mV)  
Pulse frequency: 0/120 pulse/min  
Function: Min/Max

### PWM action

Proportional band: 0.00/1.50 pH (0/150 mV)  
Pulse Period: 0/99.9 s  
Function: Min/Max

### Option 091.3711

Dual isolated output.  
The user may select the temperature output

### Option 091.4143

9/36 VDC power supply

*The technical specifications could be changed without notice.*

## Accessories

This instrument may use all pH and ORP sensors and amplified probes from B&C Electronics catalogue.