

## IC 7685

### Ion Concentration controller



- **Applications:**
  - with ISE electrodes
  - water softeners
  - drinking water
  - electroplating industry
  - Aluminum surface coating
  - CO<sub>2</sub> in biotechnology
- **Input from any ISE and CO<sub>2</sub> electrodes**
- **Input form Pt100 3 wires**
- **Measuring unit: PPM - mg/l - gr/l - mbar - mmHg**
- **Measuring range from 0.01 to 1000**
- **Autoranging**
- **Up to 5 points calibration**
- **Temperature readout**
- **Calibration parameters display**
- **Dual set-point and alarm conditions display**
- **Automatic or manual temperature compensation**
- **Dual filter software**
- **Isolated output:**
  - 0/20 mA or 4/20 mA selectable
  - programmable input on the span
  - dual output as option
- **Automatic or manual operation**
- **Dual set-point with hysteresis, delay, and min/max programmable functions**
- **Alarm:**
  - continuous/flashing
  - min/max and delay programmable
  - on set-points timing

## Specifications

(add common to the 7685 specifications)

### Operating mode

Automatic/manual

### ISE input

\* Ion type X<sup>-</sup>, X, X<sup>+</sup>, X<sup>++</sup>

Measuring scales: 5 decades from 0.01 to 1000

### \* Scales

10.00 - 100.0 - 1000 autoranging

Software filter 90%RT: 0.4/20.00 s for small/large variations

### Calibration

Up to 5 points over all the measuring range

Zero adjustment: ± 100.0 mV

Range: ± 1100 mV

### Temperature

Input: RTD Pt100 3 wires

Measuring range: -10.0/110.0 °C

Resolution: ± 0.1 °C

Zero: ± 2 °C

Manual Temperature: -10/110 °C

### Temperature compensation

Selectable: able/disable

Compensation range: -10/110 °C

Reference Temperature: 20 °C

### Option 091.4143

9/36 VDC power supply

*The technical specifications may be changed without notice*

- **EEPROM parameters storage**
- **Automatic overload protection and reset**
- **Extractable terminal blocks**
- **96X96 (1/4" DIN) housing**

## Accessories

This instrument may use all the ISE sensors for continuous operation