Electrochemical Monitors

IC 7685
Ion Concentration controller

- **Applications:**
  - **with ISE electrodes**
  - **water softeners**
  - **drinking water**
  - **electroplating industry**
  - **Aluminum surface coating**
  - **CO_2 in biotechnology**

- **Input from any ISE and CO_2 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^{--}, X^{-}, X^{+}, X^{++}
  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 Pt1000 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