

# Electrochemical Monitors

## C 7685

E.Conductivity controller



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

- **Applications:**
  - deionized water
  - drinking water
  - food industry
  - surface treatment
- **Selectable input from:**
  - 2 electrodes
  - 4 electrodes pre-amplified cell
  - electrodeless pre-amplified cell
- **Scales: from 0.2 mS to 40 Siemens**
- **Autoranging**
- **Conversion in % - gr/l - Bè**
- **Temperature readout**
- **Dual filter software**
- **Calibration parameters display**
- **Dual set-point and alarm conditions display**
- **Automatic or manual temperature compensation**
- **Automatic or manual acquisition of the temperature compensation table**
- **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**
- **Alarm:**
  - continuous/flashing
  - min/max and delay programmable
  - on Set-points timing
- **Automatic overload protection and reset**
- **Extractable terminal block**
- **96x96 (1/4 DIN) housing**

## Accessories

This instrument may use all the probes and sensors of the present catalog

## Specifications

### Input

- \* From 2-electrode E.C. cell
- \* From 080310 4-electrode microtransmitter
- \* From 080315 electrodeless microtransmitter
- From RTD Pt100 3 wires

### Scales

- \* See tables Scales vs. K
- \* Autoranging: on/off
- \* Indirect scale: on/off
- Zero adjustment: 0/5 %
- Sens. adjustment: 60/160 %
- \* Temp. reference: 10/99 °C
- \* Table /coeff. ATC selection
- \* ATC coefficient: 0/5 %/°C
- \* Software filter 90%RT: 0.4/20.0 s for small/large variations
- Display resolution: 1/1000 at 20 °C

### Temperature

- Input: RTD Pt100 2/3 wires connection
- Measuring and compensation range: -10.0/+110.0 °C
- Resolution: +/- 0.1 °C
- Zero adjustment: +/- 1 °C
- Manual Temp. comp: -10.0/+110.0 °C

### Options

- 091.3713** dual analog programmable and isolated output.  
The operator may select an output for Temperature.
- 091.701** RS232 isolated output.  
The output sends the data (E.C., °C) to the serial port of the computer.
- 091.404** 24 Vac power supply
- 091.4143** 9/36 VDC power supply

An option dual line display for E.C. and temperature readout is available on request.

*The technical specifications may be changed without notice*

### Input from 2-electrode cells

K cm <sup>-1</sup>	0,1	0,2	0,5	1,0	2,0	5,0	10,0
Range	0,2000µS	0,4000µS	1,000µS	2,000µS	4,000µS	10,00µS	20,00µS
	2,000µS	4,000µS	10,00µS	20,00µS	40,00µS	100,0µS	200,0µS
	20,00µS	40,00µS	100,0µS	200,0µS	400,0µS	1000µS	2000µS
	200,0µS	400,0µS	1000µS	2000µS	4000µS	10,00mS	20,00mS
	2000µS	4000µS	10,00mS	20,00mS	40,00mS	100,0mS	200,0mS

### Input from microtransmitters 080310 connected to 4-electrode cells or Input from microtransmitters 080315 connected to electrodeless cells

K cm <sup>-1</sup>	0,1	0,2	0,5	1,0	2,0	5,0	10,0
Range	0,2000mS	0,4000mS	1,000mS	2,000mS	4,000mS	10,00mS	20,00mS
	2,000mS	4,000mS	10,00mS	20,00mS	40,00mS	100,0mS	200,0mS
	20,00mS	40,00mS	100,0mS	200,0mS	400,0mS	1000mS	2000mS
	200,0mS	400,0mS	1000mS	2000mS	4000mS	10,00 S	20,00 S
	2000mS	4000mS	10,00 S	20,00 S	40,00 S	100,0 S	200,0 S