## **Main features**

Input from any ISE and CO2 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

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.

# **Applications**

- with ISE electrodes
- water softeners
- drinking water
- electroplating industry
- Aluminum surface coating
- CO<sub>2</sub> in biotechnology



# **Technical Specifications**

in addition to those common in the series 7685

# 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:  $\pm$  100.0 mV

Denga : 1100 mV

Range: ± 1100 mV

# Temperature

Input: RTD Pt100 3 wires

Measuring range:-10.0/110.0  $^{\circ}$ C

Resolution:  $\pm$  0.1 °C Zero:  $\pm$  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



# 7685 Series microprocessor-based

# **General information**

The **7685 Series** ncludes all of the most complete and most performing analyzers of B&C Electronics.

They include all of the following measures:

- pH ORP
- Conductivity Resistivity
- Free residual chlorine, combined and total
- Residual chlorine dioxide
- Residual dissolved ozone
- Dissolved oxygen
- Turbidity and Suspended Solids
- Residual dissolved Sulfide/Sulfite
- ISE

All controllers are manufactured in robust aluminum enclosures DIN 43700, with front panels in polycarbonate.

Their reliability and precision, along with their functionality, make them easy to use in all applications. Finally, 7685 Series guarantees one of the best performance-price ratio in the marketplace.

# **Common features**

Selectable input.

Input from RTD Pt100 3 wires.

Temperature readout.

Dual filter software.

Operating mode: automatic and manual.

Calibration parameters display.

Set-point and alarm conditions display.

Automatic or manual temperature compensation 0/20 mA or 4/20 mA programmable isolated output.

Dual set-point with hysteresis, delay and min/max programmable functions.

Min/max and set-points timing alarm relay.

Software: 3 access levels, user friendly, keyboard lock, watch-dog EEPROM parameters storage.

Automatic overload protection and reset.

Extractable terminal blocks.

96X96 (1/4" DIN) housing.

# **Technical Specifications**

common to all instruments of the 7685 Series

## **Temperature**

Input: RTD Pt100 2/3 wires

## Set point A and B:

Operation: ON/OFF Hysteresis: adjustable Delay: 0.0/99.9 s \* Function: Max/Min

Relay contacts: SPDT 220V 5 A (resistive load)

#### Alarm:

Low/High: adjustable Delay: 0.0/99.9 s

\* Relay status: activated/deactivated

- \* Alarm on max. operating time of set-point A/B: ON/OFF
- \* Max operating time of set-point A/B: 0/60 minutes
- \* Relay contacts: SPDT 220V 5 A (resistive load)

### Analog output N° 1

- \* Input corresponding to the analog output (option 091.371x): selectable
- \* Output range: 0-20/4-20 mA (it can be made to represent any segment of the measuring scale

Response time: 2.5 s for 98%

Isolation: 250 Vac Load: 600 ohm max

## Analog outpunt N° 2 (option 091.371x)

- \* Input corresponding to the analog output: selectable
- $^{\star}$  Output range: 0-20/4-20 mA (it can be made to represent any segment of the measuring scale

Response time: 2.5 s for 98%

Isolation: 250 Vac Load: 600 ohm max

# Configuration (\*)

The above parameters indicated by asterisks "\*", may be selected in the Configuration menu

### **General Specification**

Alphanumeric display: 1 line x 16 characters

Operating temperature: 0/50 °C Humidity: 95% without condensation

Power supply: 110/220 Vac  $\pm 10\%$  50/60 Hz Isolation: 4 kV between primary and secondary (IEC 348)

Power: 5 VA max. Terminal block: extractable

Weight: 850 g

Dimensions: 96 x 96 x 155 mm

## **Options**

**091.701** RS 232 isolated output

The output sends the data to the serial port of the

computer.

**091.404** 24 Vac power supply **091.414X** 9/36 VDC power supply

The technical specifications could be changed without notice

