Mai features

Input from selective membraned sensors:

- Free Chlorine, Chlorine dioxide, Combined Chlorine, D.Ozone
- Total Chlorine gas sensing method

Input from Pt100 3 wires

Ranges: 0/2 PPM - 0/20 PPM - 0/200 PPM autoranging

Dual filter software

Calibration mode: immediate or postponed

Calibration parameters display
Dual set-point and alarm conditions display
Temperature display
Automatic or manual temperature compensation

Isolated output:

- 0/20 mA or 4/20 mA selectable
- PPM or °C programmable input on the span

Automatic, manual or simulated operation Dual Set-point:

- Selectable actions
- ON/OFF
- PFM pulse frequency modulation
- PWM pulse width modulation hysteresis, delay, and min/max programmable functions

EEPROM parameters storage Automatic overload protection and reset Extractable terminal block 96x96 (1/4 DIN) housing

Applications

- drinking water
- water treatment
- bottling industry
- 0EM

Accessories

CL 7901

Flow cell and sensor for Free Residual Chlorine.

CL 7902

Flow cell and sensor for Combined Chlorine.

OZ 7901

Flow cell and sensor for Dissolved Ozone.

Other available sensors

For Sulfite and Total Residual Chlorine (gas sensing method).



Technical Specifications

in addition to those common in the series 7685

Input current

160 nA/PPM at 20 $^{\circ}\text{C}$

* Scales

0/2.000 PPM - 0/20.00 PPM -0/200.0 PPM

(Cl2, Cl02, D.03, NH3)

Zero adjustment: ± 0.2 μA

Cell sensitivity: 12.5/250 %

- * Polarization: -200 mV (0/-1250 mV)
- *Temperature coefficient: 0/4.0 %/°C
- * Filter software 90%RT: 0.4/50.0 s for small/large variations

Temperature

Input: Pt100 3 wires

Measuring and compensation range: -2/52 °C

Resolution: 0.1 °C

Zero adjustment: \pm 1 $^{\circ}$ C

Set-point A and B

* Selectable action: ON/OFF - PFM - PWM

PFM/PWM action

Proportional band: 0/10 % of the scale Pulse frequency: 0/120 pulse/min

Pulse width: 0/99.9 s

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
- * 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

