NIEUWKOOP

LEAFLET

CL3020

CHLORINE CONTROLLER,
MICROPROCESSOR

TO MEASURE = TO KNOW
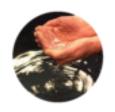
CL3020

CHLORINE CONTROLLER, MICROPROCESSOR

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Main features

Input from:
• potentiostatic sensor
• Pt100 3 wires

Ranges: 0/2 PPM and 0/20 PPM autoranging
Dual filter software
Calibration mode: immediate or postponed

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

Isolated output:
• 0/20 mA or 4/20 mA selectable
• 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

Alarm:
• continuous/flashing
• min/max and delay programmable
• on set-points timing

Autoclean relay
• auto + manual/manual action
• holding function for input and outputs

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

Accessories

SZ 283 Potentiostatic electrode
SZ 7231 - SZ 7261 Flow cell for SZ283
SZ 7233 - SZ 7263 Flow cell for 3 sensors: SZ283, pH, ORP
SZ 7251 Autoclean flow cell

Applications
• drinking water
• bottling industry

Technical Specifications		
in addition to those common in the series 7685		
Input Current		
2 µA/PPM at 20 °C		
* Scales		
0/2.000 PPM - 0/20.00 PPM		
(Cl2, ClO2, D.O3)		
Zero adjustment: ± 0.3 µA		
Cell sensitivity: 12.5/250 %		
* Polarization: –200 mV (0/–1250 mV)		
*Temperature coefficient: 0/4.0 %/°C		
* Filter software 90%RT: 0.4/20.0 s for small/large variations		
Temperature		
Input: Pt100 3 wires		
Measuring and compensation range: –2/52 °C		
Resolution: 0.1 °C		
Zero adjustment: ± 1 °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		
091.3711	Dual analog output	
	The user may select the temperature output	
091.4143	9/36VDC power supply	

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General information

The 7685 Series includes all of the most complete and most performing analyzers of Nieuwkoop B.V.

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: 250Vac
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: 250Vac
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: 110/220Vac ± 10% 50/60 Hz
Isolation: 4 kV between primary and secondary (IEC 348)
Power: 5VA 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 24Vac power supply

091.414X 9/36VDC power supply

The technical specifications could be changed without notice

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