

LEAFLET



EC3020

E. Conductivity controller









NIEUWKOOP

Main features

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/I - Bè Temperature readout Dual filter software

Calibration parameters display
Dual set-point and alarm conditions display
Automatic or manual temp. 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

The controller can be used with all B&C/Nieuwkoop conductivity cells, including the 4-electrodes and toroidal amplified probes

Applications

- deionized water
- · drinking water
- food industry
- surface treatment



Input from 2-electrode cells												
K cm ⁻¹	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 ⁻¹	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					

K cm-'	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	10,008	20,00S
	2000mS	4000mS	10,008	20,008	40,00S	100,08	200,0\$

Technical Specifications

in addition to those common in the series 7685

Scales (See tables Scales vs K)

- * Autoranging: on/off
- * Indirect scale: on/off

Zero adjustment: ±10 %

Sens. adjustment: 60/160 %

* Software filter 90%RT: 0.4/20.0 s for small/large variations

Temperature

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 forTemperature.

091.4143 9/36VDC power supply



General information

The 7685 Series includes all of the most complete andmost performing analyzers of B&C/Nieuwkoop.

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 Nº 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: $110/220 \text{Vac} \pm 10\% 50/60 \text{ Hz}$

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



TO MEASURE TO KNOW

