NIEUWKOOP

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LEAFLET

PH3030

PH AND ORP CONTROLLER




TO MEASURE = TO KNOW

PH3030
PH AND ORP CONTROLLER

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Main features

Dual input from:
• pH electrode (Glass or Antimony)
• ORP electrode

Input from Pt100 3 wires
pH/mV/Temperature readout
Dual filter software
Operating mode: automatic and manual
Calibration parameters display
Set-point and alarm conditions display
Automatic or manual temperature compensation

Dual isolated output:
• 0/20 mA or 4/20 mA selectable
• pH/ORP/°C selectable

Dual set-points (pH/ORP selectable) with selectable action:
• ON/OFF
• PFM proportional Pulse Frequency Modulation
• PWM proportional Pulse Width Modulation with hysteresis, functions
• Continuous/flashing alarm
• Min/max and set-points timing alarm relay
• Autoclean relay • EEPROM parameters storage
• Automatic overload protection and reset
• Extractable terminal blocks
• 96X96 (1/4"DIN) housing

Accessories

The controller is suitable for all pH and ORP sensors of B&C Electronics, including those with microtransmitter 080102.1.

Applications

• pH + ORP measuring
• chromate and cyanide treatment plants
• swimming pool
• autoclean sensors
• PFM / PWM regulations

Technical Specifications

in addition to those common in the series 7685

Sensor type
Glass pH/Antimony pH/ ORP

Glass electrode
Zero: 0.0 mV at pH 7 ±2 pH
Slope: 59.16 mV/pH 25 °C 80/110 %

Antimony electrode
Zero: -325 mV at pH 7 ±2 pH
Slope: 50 mV/pH 25 °C 70/140 %

ORP electrode
Zero adjustment: ±1000 mV
Sens. adjustment: 80/110 %

Input scales
* pH: 0.00/14.00 ±0.01 pH
* ORP: -1000/+1000 mV ±1 mV
* Software filter 90%RT: 0.4/20.0 s for small/large variations

Temperature
Measuring and compensation range: -10/+110 °C
Zero adjustment: ±2 °C

Set point A and B
* ON/OFF action 0.00/14.00 pH -1000/1000 mV

PFM and PWM action
Proportional band: 0.00/1.50 pH 0/150 mV
Pulse frequency: 0/120 pulse/min (PFM)
Pulse Period: 0/99.9 sec (PWM)
* Function: Min/Max

Analog output N° 1 and N° 2
* Input corresponding to the analog output : pH/mV/°C
* Output range: 0-20/4-20 mA (it can be made to represent any segment of the measuring scale)

Options
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 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 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 ± 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	9/36VDC power supply

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