

Monitor for CCK sensor NEON®



- Disinfectant measurements with auto-cleaning of sensor
- 1 Input for CCK sensor
- 1 Relay output
- 1 Input for flow controller
- **OPTIONS: PID with 2 relays, 1 or 2 Analogue outputs 4-20 mA RS485 Interface (Modbus)**

APPLICATIONS

- Chlorine measurement on drinking water
- Chlorine traces before reverse osmosis
- Measurements on cooling tower systems

DESCRIPTION

NEON ® monitor is designed for regulation and monitoring of various disinfectant compounds (chlorine, chlorine dioxide) with the sensor CCK.

The patented Automatic Cleaning System (ASR) removes deposits from the electrodes and keeps the sensor clean and operational during monitoring. The cleaning is an electrochemical operation.

The controller applies adequate voltage to the electrodes to generate oxygen and hydrogen, without the addition of chemicals. These gaseous releases eliminate deposits.

The cleaning sequence takes about 30 seconds and may be repeated 1 to 7 times a week. During this period, the measurement is frozen and the control is inhibited.

The touch screen display provides easy reading of the measurement and temperature. The instrument also displays the menus to set up thresholds and operating mode.

CODE NUMBERS AND REFERENCES

Code	Reference	Description
194 903	NEON CONTROL DES + ASR	Wall mount (standard), 220 V AC ; 1 relay output
194 913	Option 1	Option : First analogue output
194 914	Option 2	Option : Second analogue output

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TECHNICAL FEATURES

Measuring scales	Free chlorine, total chlorine, chlorine dioxide 0... 1000 µg/l (ppb), 0... 5.00 / 10.00 / 20.00 mg/l (ppm)
Programming	Front touch screen - Protection by access code
Auto-cleaning	Automatic by reverse polarity (1 to 7 times a week)
Inputs:	
Temperature	Manual or automatic with Pt 100 or Pt 1000 sensor
Temperature scale	-30 ... +140 °C
Temperature compensation	Adjustable factor 0 ... 8 %/K
Digital input	Flow controller (PNP); Status as N.O. or N.C. through the menu.
Outputs:	
Relay output	1 Relay, potential free, N.O. or N.C.; max. 250 V, 6 A, 550 VA
Analogue outputs	Option 1: 0/4 ... 20 mA (Adjustable, galvanic insulation) Max. load 500 Ohm Scalable along measuring range
Serial interface	Option: RS 485 Modbus RTU (19200 bauds) ; 8 bits
Power supply:	
Voltage	85 ... 265 V AC ; +6/-10% ; 40 ... 60 Hz Option: 24 V DC
Consumption	10 VA
Operating limits:	
Storage temperature	-20 ... +65 °C
Operating temperature	0... +50 °C
pH	Free chlorine: Constant pH between 6 and 8 Chlorine dioxide: Constant pH between 6 and 9 Total chlorine: Constant pH between 6 and 10
Relative humidity	Max. 90 % (at 40 °C, non condensating)
Protection	Wall mount: IP 65 Panel mount: Front IP 54, rear case IP 30
Settings	
Set up	Option: on/off controller (adjustable hysteresis) Regulation P/PI/ PID (On/OFF; Pulse; PID)
Relays	2 Relays, potential free, NC or NO, max. 250 V, 6A, 550 VA
Delay	0... 200 seconds before restarting the regulation
Flow controller	Through digital input
Languages	English, French, German, Spanish
Housing:	
Material	ABS
Dimensions	Front: 144 x 144 mm - Deep: 156 mm
Connections	Cable glands: 1 x M16, 2 x M12; Option : 2 x M12 and 1 x M25 Removable terminals: Cable rigid/flexible 0.14 ... 1.5 mm ² Removable terminals for relays and supply: Cable 0.2 - 1 / 0.2 - 1.5 mm ²

EC Conformity: The instrument meets the legal requirements of the current European Directives

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