



DR. A. KUNTZE
INSTRUMENTS

NEON

NEON. Innovation from tradition.

Since 1945 we develop measuring and control instrumentation for water analysis. With our new instrument series Neon we present modular measuring and control instruments that adapt to your needs and offer a lot of advantages!

Modular.

Neon is a modular measuring and control instrument that can be configured to fit your application. In the basic version with key operation, one digital input and the alarm relay are included besides the measuring function. All further functions can be added via activation code or with modules.

Intuitive.

Neon is available with keys or with touch screen. Operation is intuitive due to the graphical menu. If you need help, especially during installation, you can activate the wizard. The wizard will guide you through the menu and ask for the information the instrument needs from you.

Communicative.

Storage of measured data can take place on the SD-card within Neon. If you prefer a more classical way

to read out measured data or controller output, two mA outputs with adjustable scale and a serial interface RS 485 are available.

Comfortable.

You have to set up several instruments? No problem! Save the configuration on the SD-card and transfer this from instrument to instrument. The Hold-function allows maintenance work without setting off the alarm.



Adaptable.

You are looking for a modular measuring and control instrument that is adaptable to various applications? Neon is just the ticket for you. It impresses by its high versatility in the following applications: drinking water, disinfection, process water, cooling water, and industrial waste water.

Controllable.

You are not on site? With the optional web server you can check the measured data of your Neon instrument from every PC with internet connection, and you can even change parameters and make adjustments.

BASIC VERSION

- ▶ Key operation
- ▶ 85.. 265 V AC power supply
- ▶ 1 measurement
- ▶ 1 temperature measurement
- ▶ 1 alarm relay
- ▶ 1 digital input
- ▶ SD-card for software updates and configuration

OPTIONS

- ▶ Touch screen
- ▶ 24 V DC power supply
- ▶ 2 analog outputs 0/4.. 20 mA
- ▶ 2nd digital input
- ▶ RS 485
- ▶ Ethernet with internal webserver
- ▶ PI controller with 2 control relays
- ▶ Volume-based dosage
- ▶ Data logging on SD-card
- ▶ Patented automatic sensor cleaning ASR for the disinfection measurement





NEON as wall mounted housing with touch screen



NEON as panel mounted housing with keys

NEON. Measuring and controlling – made in Germany.

You are looking for a competent contact person, whose advice you can rely on? You have come to the right place. At Dr. A. Kuntze you buy directly from the manufacturer. This stands for guaranteed quality – made in Germany.

INPUTS

- ▶ 1 measuring input
- ▶ temperature measurement
- ▶ 2 digital inputs

PARAMETER

- ▶ pH/ORP
- Unit: pH, mV

- Connection of pH and pH difference electrodes
- High impedance connection of reference electrode possible
- 2-point-calibration
- Temperature measurement Pt 100/Pt 1000
- Automatic or manual temperature compensation

Disinfection

- Chlorine, Chlorine dioxide, Ozone
- Unit: mg/l, ppm
- 1-point-calibration

- Automatic sensor cleaning ASR



The patented electro-chemical cleaning function ASR minimizes maintenance as low as maintenance can go.



Conductivity

- Conductive and inductive
- Unit: $\mu\text{S}/\text{cm}$, mS/cm , $\text{M}\Omega\text{m} \times \text{cm}$, ppm (TDS)
- Connection of 2- and 4-electrode conductivity cells
- Temperature measurement Pt 100, Pt 1000, NTC
- Temperature compensation: linear and ultra pure water

Ambient air Monitoring

- Chlorine, Chlorine dioxide, and Ozone
- Unit: ppm
- Automatic sensor test

Standard input

- Unit: ppm
- Connection of sensors with standard signal: 0/4.. 20 mA
- Power supply: 12 V DC

WIZARD

Guidance and help with

- ▶ Installation of a measurement
- ▶ Controller adjustment
- ▶ Data logging on SD-card
- ▶ Calibration
- ▶ Adjustments of mA outputs

POWER SUPPLY

- ▶ Wide range power supply 85.. 265 V AC, 60 Hz
- ▶ Optionally 24 V DC

SD-CARD

- ▶ Data logging – storage of measured data
- ▶ Duplicating the configuration – parameter sets can be transferred from one instrument to another
- ▶ Software update on site – no pc connection necessary

CONTROLLER FUNCTIONS

- ▶ PI controller
- ▶ Volume-based dosage

OUTPUTS

- ▶ 2 current outputs 0/4.. 20 mA scaleable
- ▶ RS 485
- ▶ Ethernet with internal webserver

APPLICATIONS

- ▶ Drinking water
- ▶ Disinfection
- ▶ Process water
- ▶ Cooling water
- ▶ Industrial waste water

HOUSING

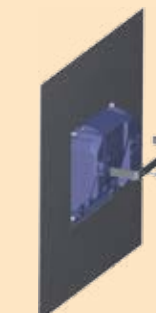
Wall mounted housing

assembly



Panel mounted housing

assembly



NEON. Intuitive menu.

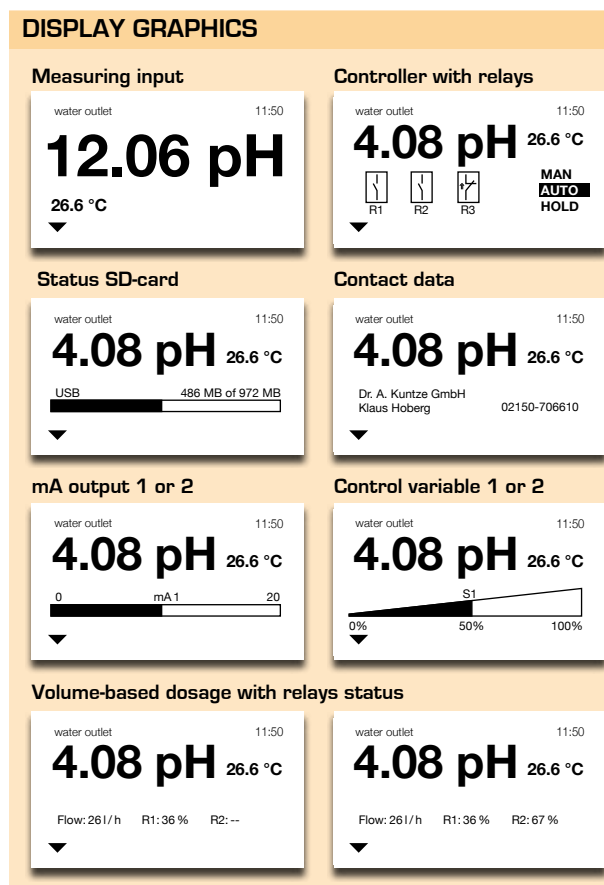
Measuring was never easier than with Neon:
With key operation or touch screen - with the configurable display you keep track of all the important parameters.

DISPLAY

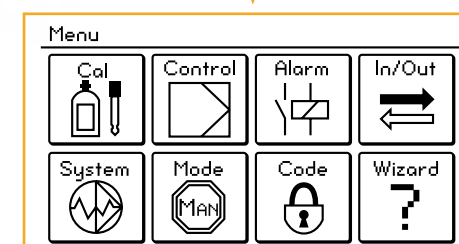
- ▶ Large display: 90 x 50.5 mm
- ▶ Monochrome
- ▶ Background illuminated
- ▶ Contrast adjustable
- ▶ Sleep-mode
- ▶ Display configurable:
 - Measuring input
 - Controller with relays
 - Status SD-card
 - Contact data
 - mA output 1 or 2
 - Control variable 1 or 2
 - Volume-based dosage with relays status

OPERATION

- ▶ Key operation or touch screen
- ▶ Graphical menu guidance - easy and intuitive
- ▶ Languages: German and English - additional languages downloadable



Menu structure.



CALIBRATION

Calibrate, adjust calibration parameters and find the results of the last calibration.



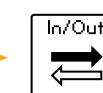
CONTROLLER

All necessary controller functions: set points, direction of action, controller type (P/PI/3-point) and the corresponding settings.



ALARM

Enter limit values and decide what events should operate the alarm relay.



IN/OUT

Find all settings for inputs and outputs: measurement, temperature, mA outputs, digital inputs, SD-card, and serial interface, including test functions.



SYSTEM

General settings: language, time, display configuration, reset, and activation of new functions. You can even enter contact data of service personnel.



MODE

Activate and deactivate the controller or select Hold-mode for maintenance.



CODE

Restrict access to certain functions via codes.



WIZARD

The wizard guides you step by step through the installation and similar topics, such as calibration or controller adjustment.



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GUTES WASSER MIT SYSTEM

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