

Neon® DIS

Disinfectant measurement

Single channel water monitoring instrument

Neon® is a leading edge measuring and control instrument. Its range of functions can be tailored according to customers' applications.

The entry level version contains inputs for measurements and temperature, one digital input and an alarm relay. Various add-ons are available to expand the functionality as well as wall mounted or panel mounted housing. Neon's® water measurement process can be controlled at any time, from any place, on any device via Kuntze's Cloud Connect® service. All Kuntze products are Made in Germany.



Applications









Disinfection

Industrial Water

Pool & Spa

Drinking Water









Process Water Cooling Water

Food/ **Beverages** Waste Water **Treatment**

Neon® DIS

Technical data

Measuring range

Free Chlorine, Chlorine Dioxide

Up to 1000 µg/l, 5,00 / 10,00 / 20,00 mg/l

Ozone Up to $1000 \mu g/l$, 5,00 / 10,00 mg/l

Hydrogen Peroxide Up to 30,00 mg/l

Input characteristic

Temperature measuring range -30,0.. +140,0 °C (-22.0°.. 284 °F)
Temperature compensation 0,0.. 8,0 %/K adjustable coefficient

Digital input 1 as controller stop by external contact, option: 2nd as controller stop or

flow measurement for volume based dosing

Process conditions assembly Flow input: > 0.5 bar (7.3 psi)

Flow output after

Stabiflow®: ~30 l/h (7.9 gph)

Temperature: 0..50 °C

Pressure: < 6 bar at 20 °C (87 psi at 68 °F)

Measurement accuracy +/- 2 % from measuring range end

(except Hydrogen Peroxide; H₂O₂: +/-2 mg/l)

Response time < 20 s

Output characteristics

Alarm relay 1 potential-free N/O contact, max. 250 V, 6 A, 550 VA (invertible)

Output signal Optional: 2 x 0/4 .. 20 mA (scalable, galvanically isolated)

Load: Max. 500 Ohm

Registration range: Scalable within the measuring range

Storage media SD card up to 1 GB - Industry standard

Serial interface Option: RS 485 Modbus RTU

Baud rate: 19200 bps
Data format: 8 bit

Power supply

Line voltage 85.. 265 V AC, +6/-10 %, 50.. 60 Hz; option: 24 V DC

Power consumption 10 VA

Process conditions

Temperature Storage: -20°.. +65 °C (-4 °..+149 °F)

Exception sensor: 0..+30 °C (32 °..86 °F)

Operation: 0 .. +50 °C (32 °.. 122 °F)

pH range Free Chlorine: pH 6...8

Chlorine Dioxide, Ozon,

Hydrogen Peroxid: pH 6...9

Humidity Max. 90 % rH at 40°C (non-condensing)

Ingress protection Wall mounted: IP 65

Controller

Control response Option: on/off controller (adjustable hysteresis)

P/PI/ PID controller (pulse-pause, pulse-frequency or continuous output)

3-point controller

Relay 2 relays, each with a potential-free N/O contact, max. 250 V, 6 A, 550 VA

Start delay 0.. 200 sec until controller activation

Controller stop Digital input

Proportion to volume

Control mode Option: volumed based by flow measurement Impuls measurement NPN (by digital input 2) Flow measurement Engine speed: 0.030.. 9.999 I/Imp

Relais 1 Potential-free N/O contact, max. 250 V, 6 A, 550 VA

(pulse-pause, pulse-frequency)
Activating circulation pump

Certificates and approval

Relay 2

CE-Symbol The product meets the requirements of the harmonized European

standards and complies with the legal requirements of the EC directives

EMC EN 61000 6-1 (3) EN 61000 6-2 (4) EN 61326

Design configuration

Material Board: PVC

Assembly: PVC Instrument: ABS

Sensor: Glass, Plastic / Gold / Platin / Hastelloy

Dimensions 400 x 500 mm

Connection Cable inlet: 1 x M16, 2 x M12

Plug-in terminal: Rigid / flexible 0.14 - 1.5 mm²
Relays / power supply: Rigid / flexible 0.2 - 1 / 0.2 - 1.5 mm²
Distribution block: Rigid / flexible 0.5 - 1,5 / 0,5 - 1,5 mm²

Water hose connection: DN 6/8

Mechanical drawing

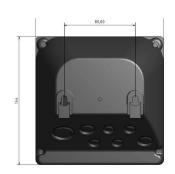
Neon® panel mounted



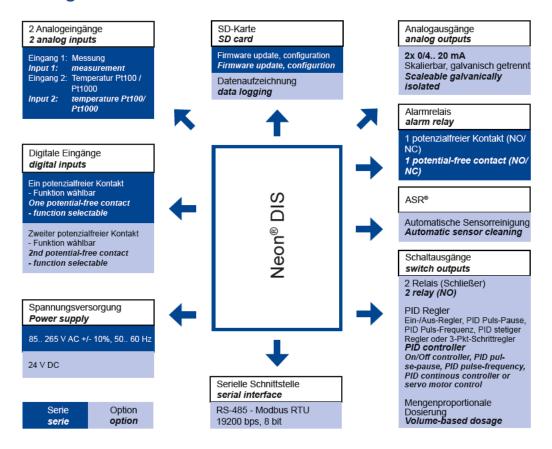


Neon® wall mounted





Interface diagram



Article No.

142201K Neon® DIS 24 V DC



Kuntze Instruments GmbH

Robert-Bosch-Str. 7a 40688 Meerbusch Germany

+49 2150 70660 info@kuntze.com www.kuntze.com