

## Krypton® pR Flow pH / ORP 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.

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



Process Water



Disinfection



Drinking Water



Food & Beverage



Waste Water  
Treatment



Pool & Spa

## Technical data

### Measuring range

pH-value -2.00.. +16.00 pH  
ORP -1500.. +1500 mV

### Input characteristic

Temperature measuring range -30.0 °.. +140.0 °C (-22.0 °.. 284.0 °F)  
Temperature compensation Nonlinear (pH)  
Digital input 1. Input by external contact,  
Option: 2nd input as controller stop or flow measurement for volume based dosing

### Output characteristics

Alarm relay 1 potential-free N/O contact, max. 250 V, 6 A, 550 VA (invertible)  
Output signal Option: 2 x 0/4 .. 20 mA (scalable, galvanically isolated)  
Load: Max. 500 Ohm  
Registration range: Scalable within the measuring range  
Voltage output +/- 6 VDC for impedance converter  
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)  
Operation: 0 .. +50 °C (32 °.. 122 °F)  
Humidity Max. 90 % rH at 40 °C (non-condensing)  
Protection class IP 65

### Controller

Control response Option: on / off controller (adjustable hysteresis)  
P / PI / PID controller (pulse-pause, pulse-frequency or continuous output)  
servo motor control  
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 active  
Controller stop Digital input

### Proportion to volum

Control mode Option: volumed based by flow measurement  
Flow measurement Impuls measurement NPN (by digital input 2)  
Flow measurement Engine speed: 0.030.. 9.999 l/Imp  
Relay 1 Potential-free N/O contact, max. 250 V, 6 A, 550 VA  
(pulse-pause, pulse-frequency)  
Relay 2 Activating circulation pum

## Certificates and approval

CE-Symbol

The product meets the requirements of the harmonized European standards and complies with the legal requirements of the EC directives EN 61000 6-1 (3) EN 61000 6-2 (4) EN 61326-1

EMC

## Design configuration

Material

Board: PVC  
Assembly: PMMA  
Plug: PVC  
Instrument: ABS  
Sensor: Glass, Plastic / Gold / Platinum

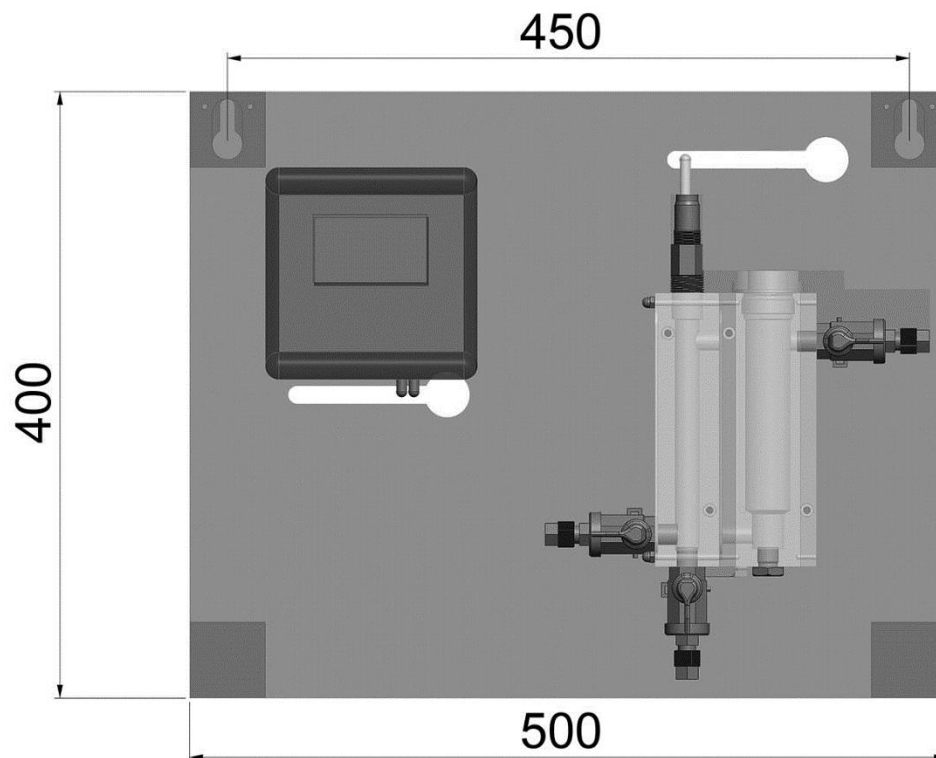
Dimensions

Connection

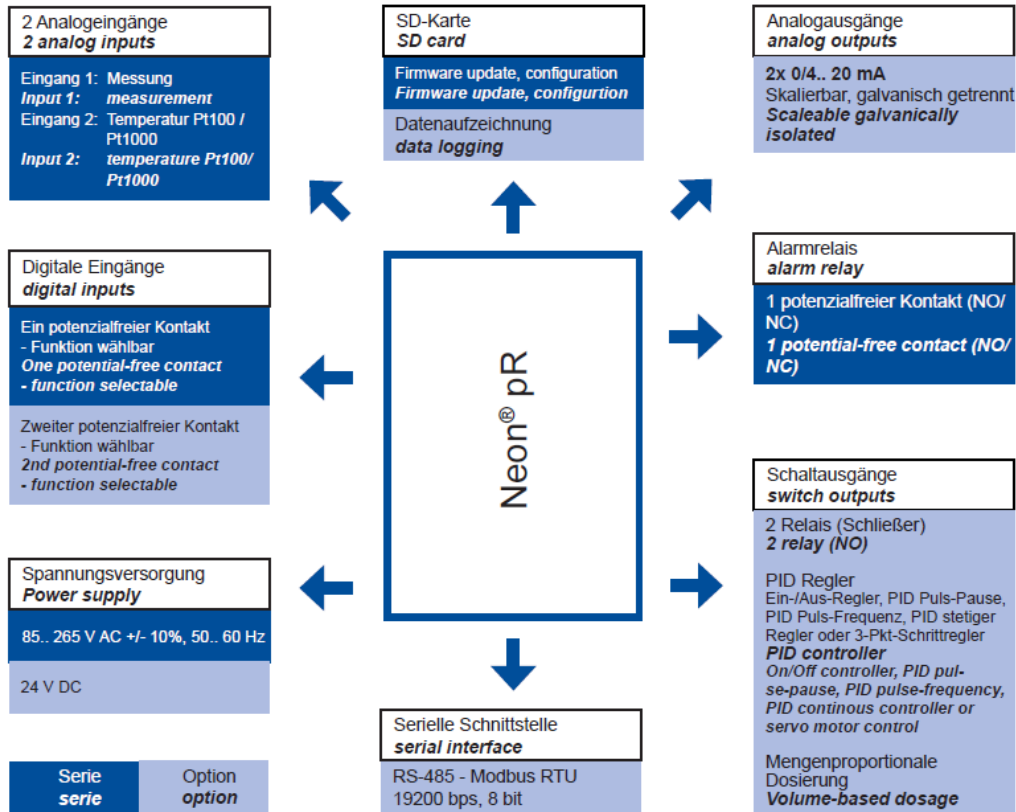
Cable inlet: 2 x M16, 2 x M12 + optional: 2 x M12 and 1 x M25

Plug-in terminal: Rigid / flexible 0.2 - 2.5 mm<sup>2</sup> / 0.2 - 2.5 mm<sup>2</sup>  
Measurement: Rigid / flexible 0.2 - 1 mm<sup>2</sup> / 0.2 - 1.5 mm<sup>2</sup>

## Mechanical drawing



# Interface diagram



Kuntze Instruments GmbH

Su representante:



tecnologías y equipos  
para el medio ambiente

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