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

Neon® DIS

Technical data

Measuring range

Free Chlorine, Chlorine Dioxide	up to 1000 µg/l, 5.00 mg/l / 10.00 mg/l / 20.00 mg/l
Ozone	up to 1000 µg/l, 5.00 mg/l / 10.00 mg/l
Hydrogen Peroxide	up to 30.0 mg/l
Total Chlorine	up to 1000 µg/l, 5.00 mg/l / 10.00 mg/l / 20.00 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	
Measurement conditions	pressure	depending on assembly

Output characteristics

Alarm relay	1 potential-free N/O contact, max. 250 V, 6 A, 550 VA (invertable)	
Output signal	Option: 2 x 0/4 .. 20 mA (scaleable, galvanically isolated)	
	Load	max. 500 Ohm
	Registration range	scaleable 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)
	Operation	0 .. +50 °C (32 °.. 122 °F)
Humidity	max. 90 % rH at 40 °C (non-condensing)	
Protection class	Wall mounted	IP 65
	Panel mounted	IP 54 (front), IP 30 (housing)

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 pump	

Certificates and approval

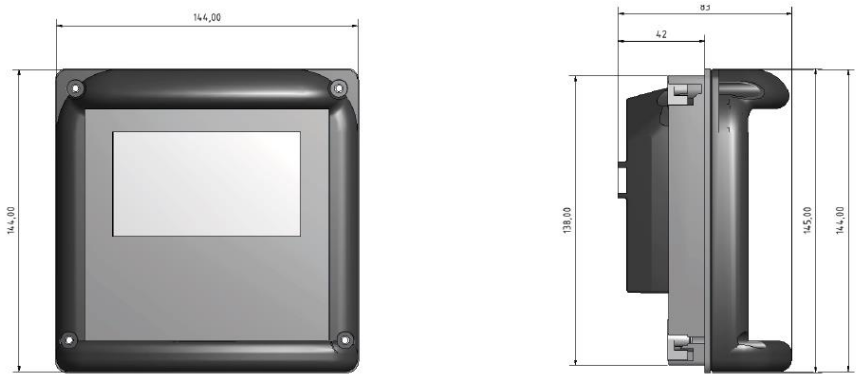
CE-Symbol	The product meets the requirements of the harmonized European standards and complies with the legal requirements of the EC directives
EMC	EN 61000 6-1 (3) EN 61000 6-2 (4) EN 61326

Design configuration

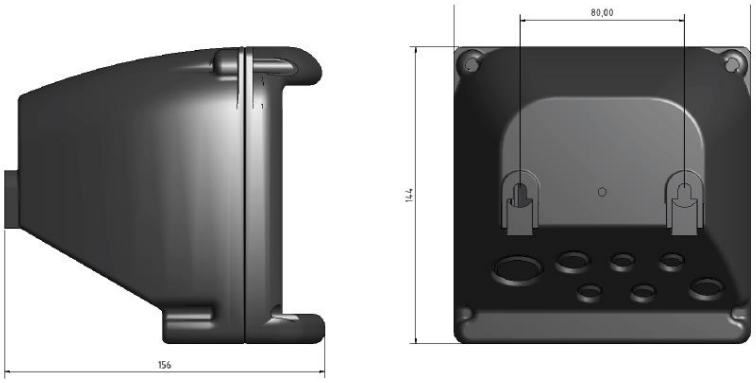
Material	ABS	
Dimensions	Panel mounted housing	138 x 138 x 83 mm (max. wall thickness: 5 mm)
	Wall mounted housing	144 x 144 x 156 mm
Mounting dimension	Panel mounted housing	138 x 138 x 42 mm
Weight	0.6 kg (wall mounted housing: 1 kg)	
Connection	Cable inlet	2 x M16, 2 x M12 + optional: 2 x M12 and 1 x M25
	Plug-in terminal	rigid / flexible 0.2 - 2.5 mm² / 0.2 - 2.5 mm²
	Measurement	rigid / flexible 0.2 - 1 mm² / 0.2 - 1.5 mm²

Mechanical drawing

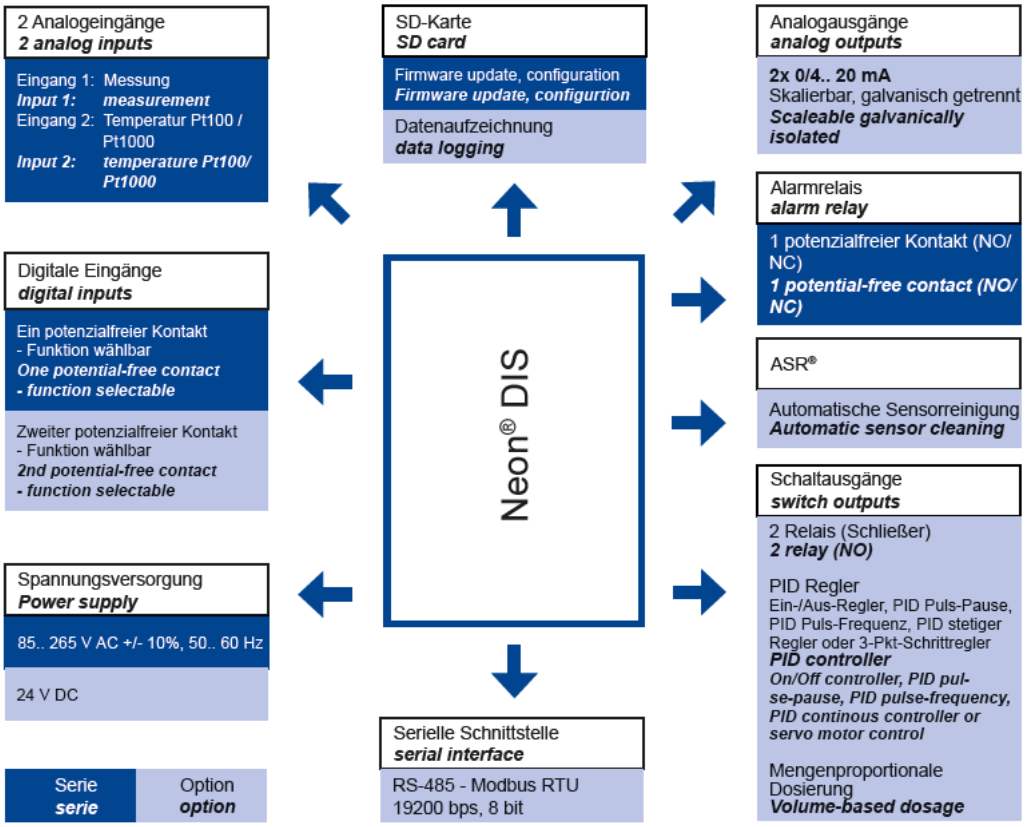
Neon® panel mounted



Neon® wall mounted



Interface diagram



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