



Product catalog

Disinfection
valid from 01. January 2023

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Kuntze Instruments GmbH

Robert-Bosch-Str. 7a
40688 Meerbusch
Germany

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

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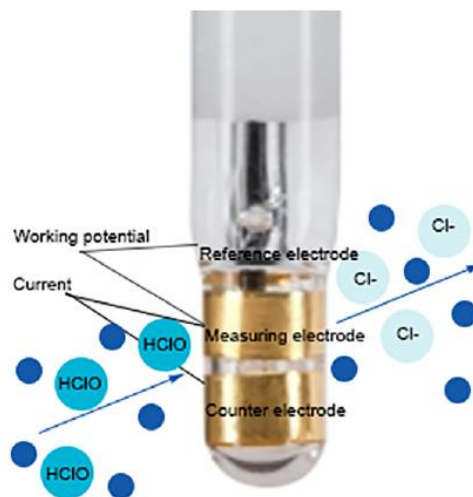
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1. Things to know

1.1 Measurement

The disinfectant measurement by Kuntze Instruments GmbH is based on the potentiostatic method. The instrument applies a potential to the measuring electrode that corresponds to a specific reaction of the disinfectant, leading to an electrical charge on the measuring electrode. Disinfectant particles that hit the electrode surface take away some of the charge. The instrument measures the potential against the reference electrode and readjusts the electrical charge to its intended value. The required current is a direct measure for the concentration of the disinfectant.



Disinfectant measurement by Kuntze

The electrodes of the sensors are made from very high-quality, chemically inert materials such as glass, carbon, and precious metals. These electrodes are in direct contact with the water to be measured. Compared with membrane-covered sensors, this design has several advantages:

Stable zero point and quick response

The measurement is selective for the disinfectant to be measured. In absence of disinfectant it drops to zero. Due to the direct contact with the water the sensor reacts fast to any concentration change - without memory effect.

Pressure proof and robust

The measuring systems can work under pressure of up to 6 bar (20 °C) and is not affected by long periods without disinfectant. The sensors contain no pressure-sensitive membrane that might tear or get blocked.

Low maintenance

The sensor design minimizes adhesion of dirt particles and fibers. Additionally, coatings on the electrode surfaces can be prevented with the Automatic Sensor Cleaning ASR®.

ASR® - Automatic Sensor Cleaning

The Automatic Sensor Cleaning is a highly efficient process to clean electrode surfaces. During the cleaning process, Hydrogen and Oxygen are produced at the electrode surfaces, blasting away even persistent coatings. Additionally, Oxygen oxidizes organic coatings, and Hydrogen reduces organic and inorganic substances, especially iron and manganese oxides.

Excess gas recombines to water and do not interfere with the measurement or the process.

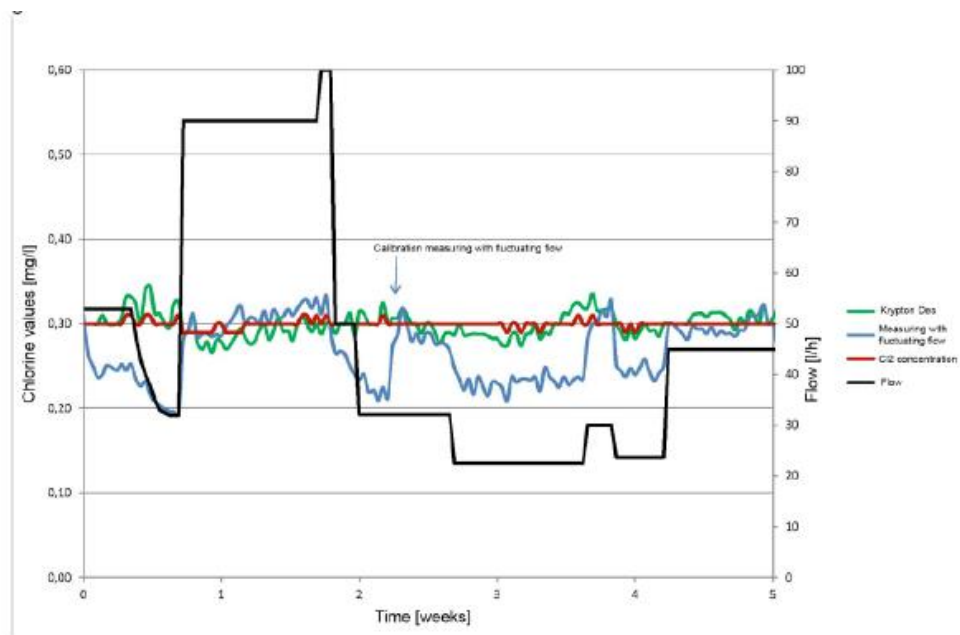
ASR® reduces maintenance requirements:

- No manual cleaning
- No exchange/refill of chemical or mechanical cleaning agents
- Drastically prolonged calibration cycles

Flow influence

All disinfectant molecules that hit the electrode surface add to the measured signal. It follows that the measurement is not only dependent on the concentration but also on the flow rate: For a given concentration the measured signal increases with increasing flow rate. Reducing the flow from 50 l/h to 40 l/h reduces a measured value of 0.3mg/l to 0.28 mg/l. Below 20 l/h the flow influence is much more pronounced.

Therefore in our DIS systems Krypton® Multi we have set the switch point of the flow monitor to ca. 30 l/h. In our new assembly Argon® Stabiflow, which is part of the new system Krypton® DIS, the flow rate is kept constant at ca. 30 l/h as long as the inlet flow rate does not drop below 35 l/h.



Flow dependence

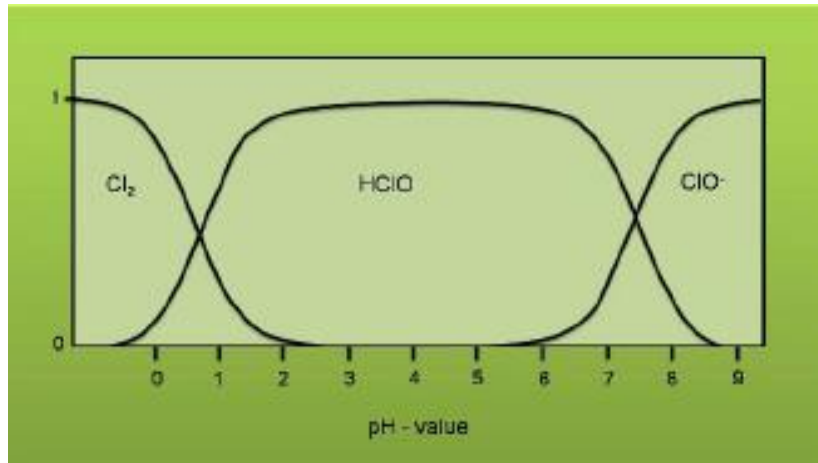
Temperature influence

With increasing temperature the signal increases slightly - at a concentration of 0.3 mg/l a signal change of 0.004 mg/l per °C can be expected (with a slope of 25 mV/0.1 mg).

You can compensate the temperature influence when using a temperature measurement. However, the temperature compensation is mainly useful in cold water applications, to correctly interpret low slope values and to avoid slope alarm messages.

pH influence on the Chlorine measurement

At different pH values, Chlorine forms different species in water. At pH 0, Chlorine is present as Chlorine gas (Cl_2). With increasing pH, the gas reacts with the water to form hypochlorous acid. Above pH 2, hypochlorous acid is the predominant species.



Dependence of chlorine measurement on pH value

Above pH 6, the hypochlorous acid is neutralized. Hypochlorous acid is turned into hypochlorite ions - ClO^- . Above pH 9 almost all Chlorine is turned into hypochlorite. The Chlorine measurement detects only the hypochlorous acid, not the hypochlorite ions. Therefore the signal strength decreases between pH 6 and 8. For a reliable measurement, pH has to be kept constant or measured and compensated. At constant pH values, the pH influence is taken care of by calibration, which results in a lower or higher slope. At fluctuating pH values, a pH measurement is necessary to allow pH compensation of the Chlorine signal. However, pH compensation is possible only as long as a signal is still detectable. Therefore the pH-range for the Chlorine measurement even with pH compensation is limited to pH 6.. 8. Above pH 8 only higher concentrations can be measured.

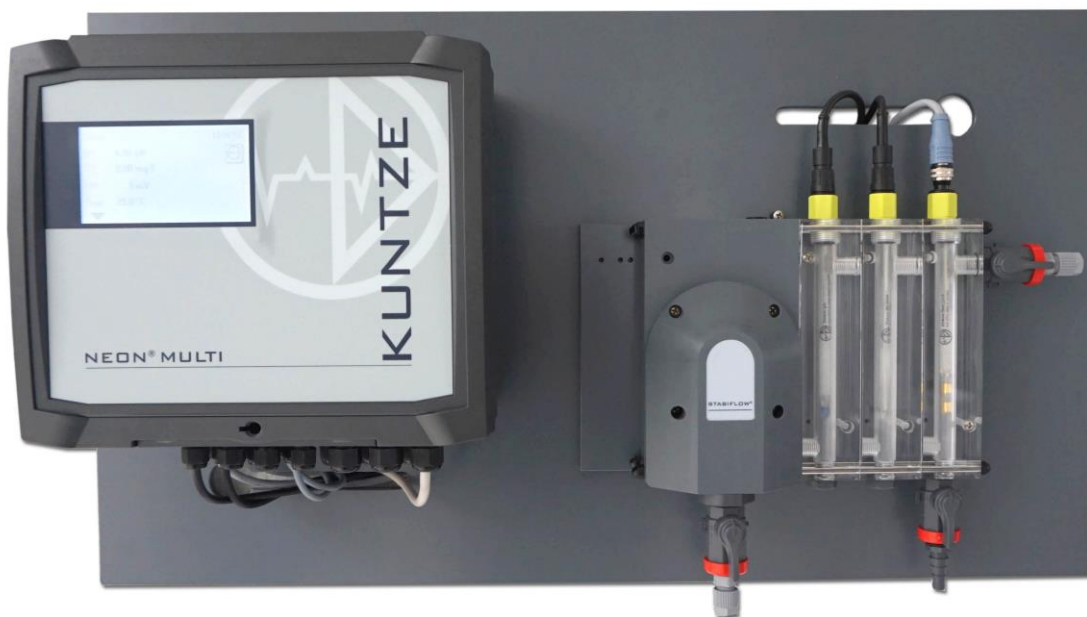
Measurement of total Chlorine

Total Chlorine is the sum of free Chlorine and organically bound Chlorine. Besides Cl_2 , hypochlorous acid and hypochlorite ions this comprises a variety of organic Chlorine compounds that stem from reactions of Chlorine with organic substances in the water. The total Chlorine measurement shows a noticeably lower pH influence compared with the free Chlorine measurement and can be used in a broader pH range (pH 4.. 12). The measurement takes place in a defined environment after a chemical reaction with iodide, to allow an equal detection of the various compounds. At the measuring electrode, instead of Chlorine the Iodine produced by the chemical reactions is reduced.

2. Systems

2.1 Krypton® Multi

2.1.1 Description



Krypton® Multi

Multi channel water monitoring system

The measuring system Krypton® Multi includes all you need for disinfection and pH measurement: instrument, sensors, assembly and wiring. The system is used for measurement and control of industrial disinfection applications as in food & beverage or water works.

The integrated modular assembly Argon® Stabiflow ensures a constant flow of approx. 30 l/h. As a consequence the system provides stable, precise and reliable measuring values. Flow fluctuations not any longer shown up in your measuring curves as long as you guarantee a water inlet above 35 l/h. The entry level version of Neon® Multi is equipped with 3 measurements: disinfection, pH, and temperature. The disinfection measuring input can be configured to measure Free Chlorine, Chlorine dioxide, Total chlorine, Ozone or Hydrogen peroxide via menu.

The measuring range is adjustable. An ORP measurement can be added or a second EC or DIS input CL2/ TCL. The entry level

version offers 6 digital inputs and 8 potentialfree CO relays as control or as alarm relays. The instruments offers PID as well as 3 point control function with and without position feedback. The System is expandable through software upgrades or add on modules.

It is possible to add up to five analog outputs, Modbus Automatic Sensor Cleaning ASR® and a datalogger. The complete system is pressure resistant up to 6 bar (at 20 °C) and brine resistant.

2.1.2 Applications



Disinfection



Industrial Water



Pool & Spa



Drinking Water



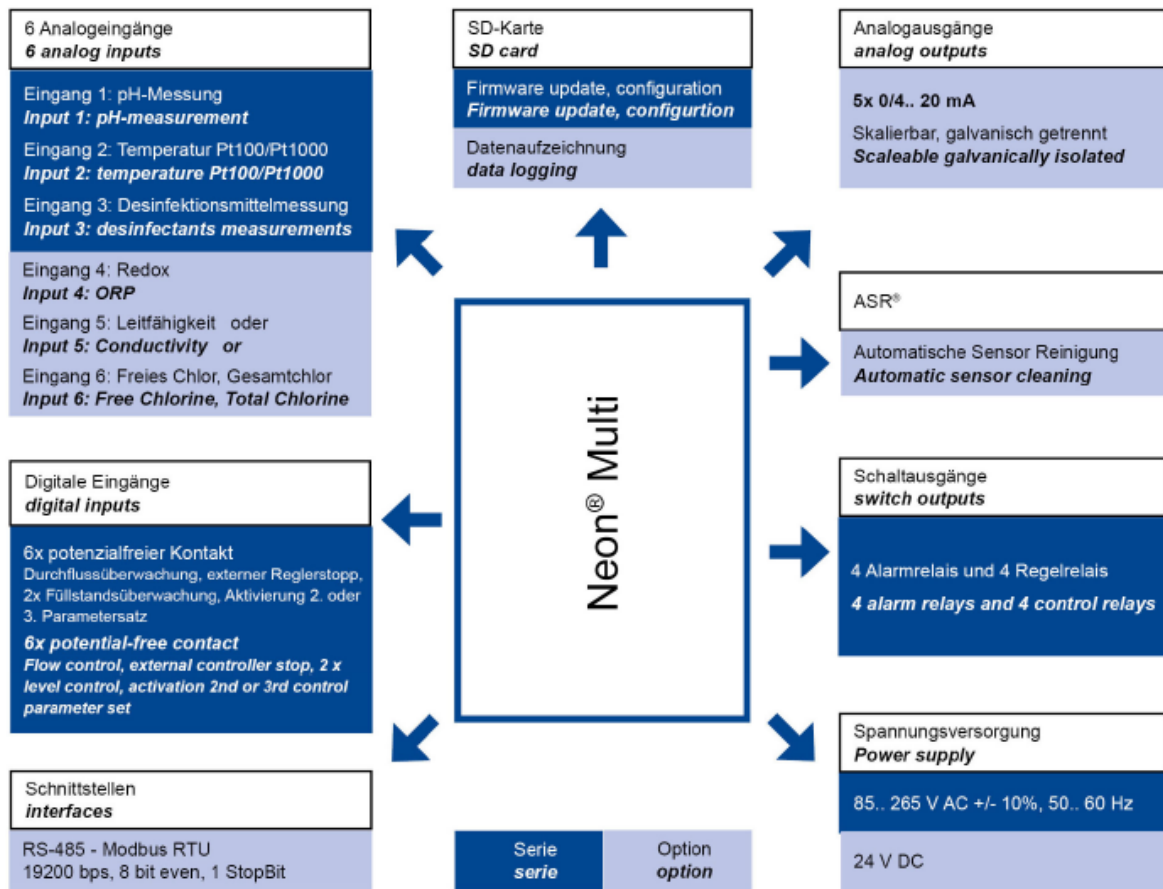
Process Water



Cooling Water

Food &
BeverageWaste Water
Treatment

2.1.3 Interface diagram



2.1.4 Technical data

Measuring range

Desinfection (DIS1)	Free Chlorine, Chlorine Dioxide, Total Chlorine:	Up to 1000 µg/l, 5.00 / 10.00 / 20.00 mg/l
	Ozone:	Up to 1000 µg/l, 5.00 / 10.00 mg/l
	Hydrogen Peroxide:	Up to 30.00 mg/l
Temperature		0.. 50.0 °C / 32.. 122 °F
pH		0.. 14.00 pH
ORP (optional)		-1500.. + 1500 mV
5 th measuring input (optional)	Conductivity:	Up to 2.000, 20.00, 200.0 mS/cm
5 th measuring input (optional) (DIS 2)	Free Chlorine, Total Chlorine:	Up to 1000 µg/l, 5.00 / 10.00 / 20.00 mg/l

Input characteristics

Measurement accuracy	+/- 2 % from measuring range end (except H ₂ O ₂ : +/-2 mg/l)	
Temperature measuring range	0..50 °C (32.. 122 °F)	
Temperature compensation	0.0.. 8.0 %/K, adjustable coefficient (DIS), nonlinear (pH)	
pH compensation	Nonlinear (Cl ₂)	
Digital input	Flow control, external controller stop, 2 x level control, activation 2nd or 3 rd control parameter set, leakage	
Measurement conditions	pH range:	6.. 8 pH (Cl ₂) 6.. 9 pH (Cl ₂ , O ₃ , H ₂ O ₂), 6.. 10 pH (TCl)
	Min. conductivity:	150 µS/cm (at lower conductivity choose different sensor type)
Precess conditions assembly	Flow Input:	> 0.5 bar, >30 l/h
	Flow Output after Stabiflow®:	~ 30 l/h
	Temperature:	0.. 50 °C / 122 °F
	Pressure:	< 6 bar at 20 °C / 68 °F
Response time	< 20 s	

Output characteristics

Alarm relay	Up to 4 potential free CO, max. 250 V; 2 A, 550 VA (insertable)	
Output signal	Optional: 5 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 kbs (Modbus)
	Data format:	8 bit

Power supply

Line voltage	85.. 265 V AC / DC, 50.. 60 Hz; Option: 24 V AC 10 VA
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)
Ingress Protection	Wall mounted: IP 65

Controller

Control parameter	Free Chlorine, pH and other parameter optional
Control response	On / off controller (adjustable hysteresis) P / PI / PID controller (pulse-pause, pulse-frequency or continuous output) 3-point controller with or without position feedback
Relay	4 relays, each a potential-free CO contact, max. 250 V, 2A, 550 VA
Start delay	0.. 200 sec till controller activation
Digital input	See input characteristics
Control parameter set	2 nd and optional 3 rd parameter set for night operation etc.

Language

Default language	English, German
Other options	Russian, Danish, Dutch, French, Polish, Spanish

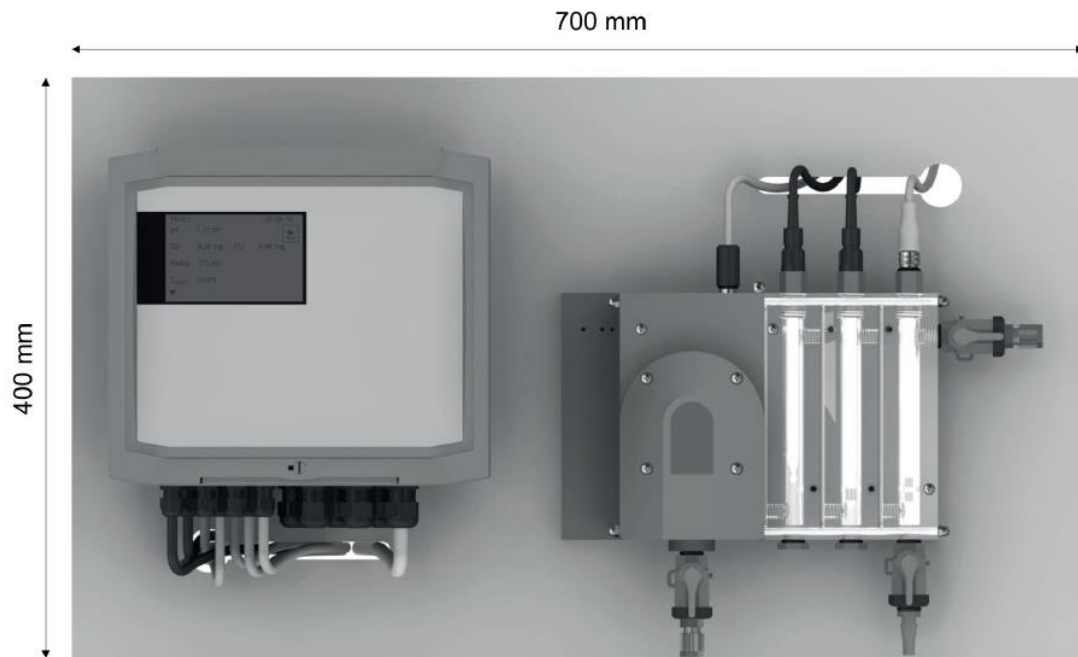
Certificates and approvals

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 61326-1

Design configuration

Material	Board:	PVC
	Assembly:	PVC
	Instrument (housing):	ABS
	Sensor:	Glass, POM / Gold / Platinum
Dimensions	700 x 400 mm	
Weight	1.9 kg	
Connection	6 x M16, 10 x M12,	6 x M16, 10 x M12
	Plug-in terminal:	Rigid / flexible 0.14 - 1.5 mm ²
	Relays / Power supply:	Rigid / flexible 0.2 - 1 / 0.2 - 1.5 mm ²
	Distribution block:	Rigid / flexible 0.5 - 1.5 / 0.5 - 1.5 mm ²
	Water hose connection:	DN 6/8

2.1.5 Mechanical drawing



Krypton® Multi

2.1.6 Order information

Type	Artikel Nr. / Article No.	Beschreibung / Description
	70153000K	Krypton® Multi (Assembly: Argon StabiFlow®; measuring board for free chlorine, chlorine dioxide, ozone or hydrogen peroxide, pH, temperature), 85.. 265 V AC
	70153001K	Krypton® Multi, 24 V DC (Assembly: Argon StabiFlow®; measuring board for free chlorine, chlorine dioxide, ozone or hydrogen peroxide, pH, temperature), 24 V DC
	70153010K	Krypton® Multi, DIS/pH/ORP/Temp (Assembly: Argon StabiFlow®; measuring board for free chlorine, chlorine dioxide, ozone or hydrogen peroxide, pH, temperature and ORP), 85.. 265 V AC
	70153020K	Krypton® Multi, DIS/pH/EC/Temp (Assembly: Argon StabiFlow®; measuring board for free chlorine, chlorine dioxide, ozone or hydrogen peroxide, pH, temperature and EC), 85.. 265 V AC
	70153020K	Krypton® Multi, DIS/pH/ORP/EC/Temp (Assembly: Argon StabiFlow®; measuring board for free chlorine, chlorine dioxide, ozone or hydrogen peroxide, pH, ORP, temperature and EC), 85.. 265 V AC
	70153030K	Krypton® Multi, DIS/pH/TCl/Temp (Assembly: Argon StabiFlow®; measuring board for free chlorine, chlorine dioxide, ozone or hydrogen peroxide, pH, temperature and TCl), 85.. 265 V AC
	70153031K	Krypton® Multi, DIS/pH/TCl/Temp, 24 V (Assembly: Argon StabiFlow®; measuring board for free chlorine, chlorine dioxide, ozone or hydrogen peroxide, pH, temperature and TCl), 24 V DC

	70153200K	Krypton® Multi - pH/TCl (Assembly: Argon StabiFlow®; measuring board for TCl, pH, temperature), 85.. 265 V AC
	70153201K	Krypton® Multi - pH/TCl, 24 V (Assembly: Argon StabiFlow®; measuring board for TCl, pH, temperature), 24 V DC
Interfaces	19514300K	Modbus RTU
Outputs	19515007K	Five mA outputs
Special functions	19515008K	Datalogging
Cleaning	19515009K	ASR® Automatic Sensor Cleaning (only DIS 1 and CL2, Clo2, O3 and H2O2)



Note!

Choose the components you need and that's how your "assembly version" is designed. We will have to technically inspect and approve a free combination of individual key features.

2.2 Krypton DIS®

2.2.1 Description



Krypton® DIS

Single channel water monitoring system

The measuring solution Krypton® DIS includes everything you need for disinfection measurements: instrument, sensor, flow assembly and wiring. The system is used for measuring free Chlorine, Chlorine dioxide, Ozone and Hydrogen peroxide. Measuring parameter and measuring range can be chosen in the menu.

The integrated flow assembly Argon® Stabiflow ensures a constant flow of approx. 30 l/h across the sensors. As a consequence the system provides stable, precise and reliable measuring values. Flow fluctuations not any longer shown up in your measuring curves as long as you guarantee a water inlet above 35 l/h.

For measuring free Chlorine, Chlorine dioxide and Ozone the double gold sensor Zirkon® DIS 231612500 is used, for Hydrogen peroxide the double platinum sensor Zirkon® DIS 231714500 und for measuring in brine graphite-platinum sensor Zirkon® DIS Pool 237813500.

Temperature and flow are guarded by Zirkon® FTG, which additionally can be used for grounding. The measuring and control instrument Neon® in the entry level version contains input / outputs

for measurement and temperature, a digital input and an alarm relay.

The Neon® is expandable through software upgrades and add-on modules. It is possible to add two additional analog outputs, control functions (concentration-based or volume-based), Modbus interface and Datalogger. Of course, you can also unlock our Automatic Sensor Cleaning ASR® to your system by an add-on code.

The complete system is pressure resistant up to 6 bar (at 20 °C) and brine resistant. Measuring parameter and range can be chosen via the user interface. Kuntze Krypton® DIS is delivered fully assembled and ready to use.

The 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.

2.2.2 Applications



Disinfection



Industrial Water



Pool & Spa



Drinking Water



Process Water



Cooling Water

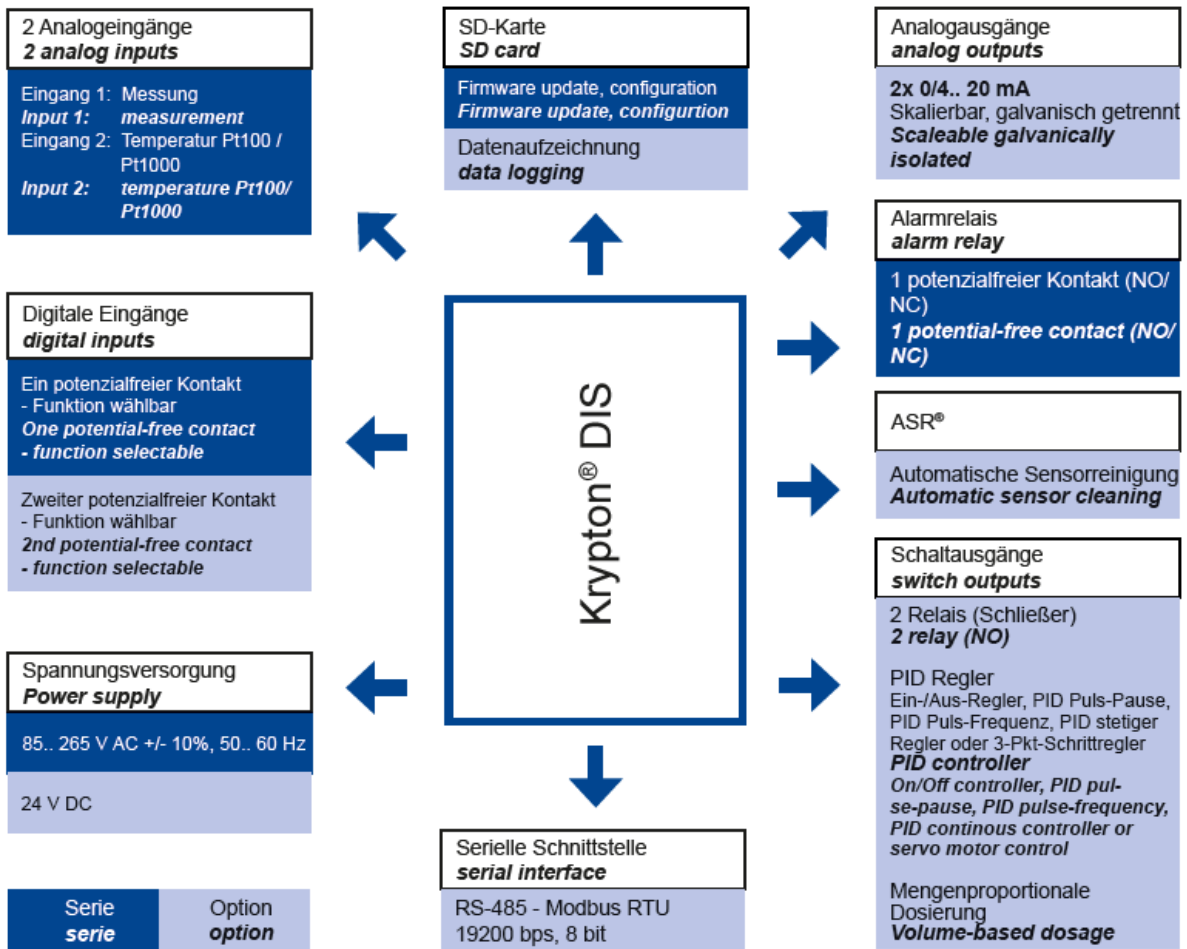


Food &
Beverage



Waste Water
Treatment

2.2.3 Interface diagram



2.2.4 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 µg/l, 5,00 / 10,00 mg/l

Hydrogen Peroxide Up to 30,00 mg/l

Input characteristic

Temperature measuring
range -30.. +140 °C / -22 °.. 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
Output signal 1 potential-free N/O contact, max. 250 V, 6 A, 550 VA (insertable)
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	
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	

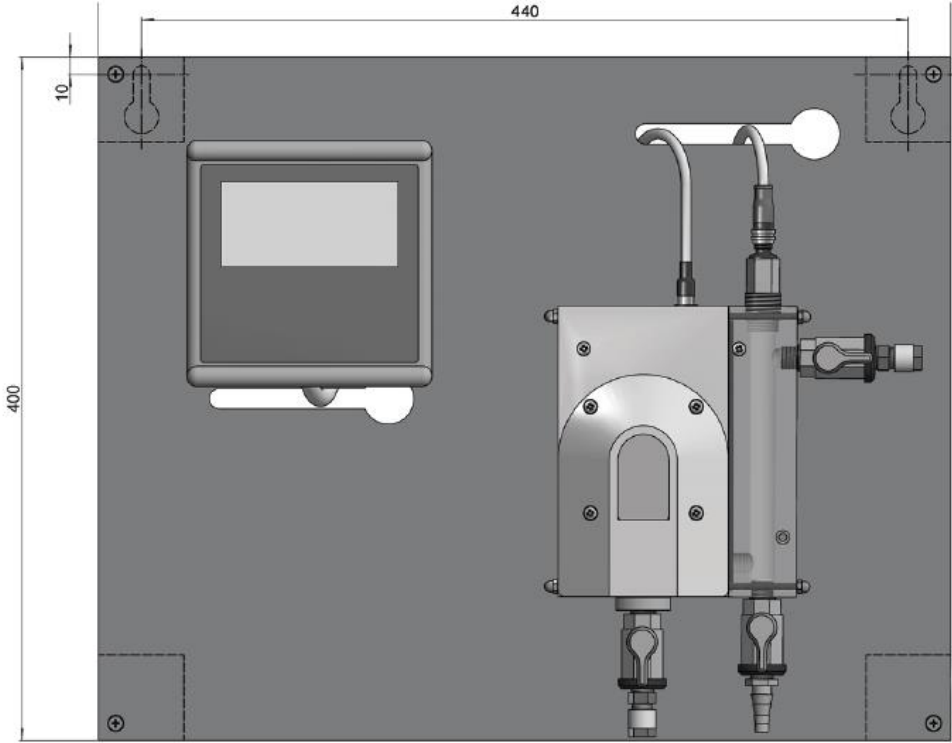
Certificates and approval

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	Board: Assembly: Instrument: Sensor:	PVC PVC ABS Glass, Plastic / Gold / Platinum / Hastelloy
Dimensions	400 x 500 mm	
Connection	Cable inlet: Plug-in terminal: Relays / Power supply: Distribution block: Water hose connection:	1 x M16, 2 x M12 Rigid / flexible 0.14 - 1.5 mm ² Rigid / flexible 0.2 - 1 / 0.2 - 1.5 mm ² Rigid / flexible 0,5 - 1,5 / 0,5 - 1,5 mm ² DN 6/8

2.2.5 Mechanical drawing



Krypton® DIS

2.2.6 Order information

	Artikel Nr. / Article No.	Beschreibung / Description
Type	70142000K	Krypton® DIS (assembly: StabiFlow®), 85.. 265 V AC
	19514101K	24 V DC
	70142010K	Krypton® DIS (assembly: Flow)
Interfaces	19514300K	Modbus RTU
Controller	19514200K	PID with 2 control relays
	19514201K	Volume based dosing with 2 relays* (*only in combination with 2nd digital input: Art. 19514202K)
Inputs	19514202K	Second digital input
Outputs	19514203K	First mA-output
	19514204K	Second mA-output
Special functions	19514205K	Datenlogger



Note!

Choose the components you need and that's how your "assembly version" is designed. We will have to technically inspect and approve a free combination of individual key features.

2.3 Krypton® DIS Total

2.3.1 Description



Krypton® DIS Total

Single channel water monitoring system

The Kuntze Krypton® DIS Total is used to measure Total Chlorine and temperature. The measuring solution Krypton® DIS Total includes everything you need for measurements: instrument, software, sensors, flow assembly and cables.

The integrated flow assembly Argon® Stabiflow ensures a constant flow of approx. 30 l/h across the sensors. The measuring and control instrument Neon® in the entry level version contains input / outputs for measurement and temperature, a digital input and an alarm relay. The Neon® is expandable through software upgrades and add-on modules. It is possible to add two additional analog outputs, control functions (concentration-based or volume-based), Modbus interface and Datalogger. The complete system is pressure resistant up to 6 bar (at 20 °C) and brine resistant. Kuntze Krypton® DIS Total is delivered fully assembled and ready to use.

The 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.

2.3.2 Applications



Disinfection



Industrial Water



Drinking Water



Process Water

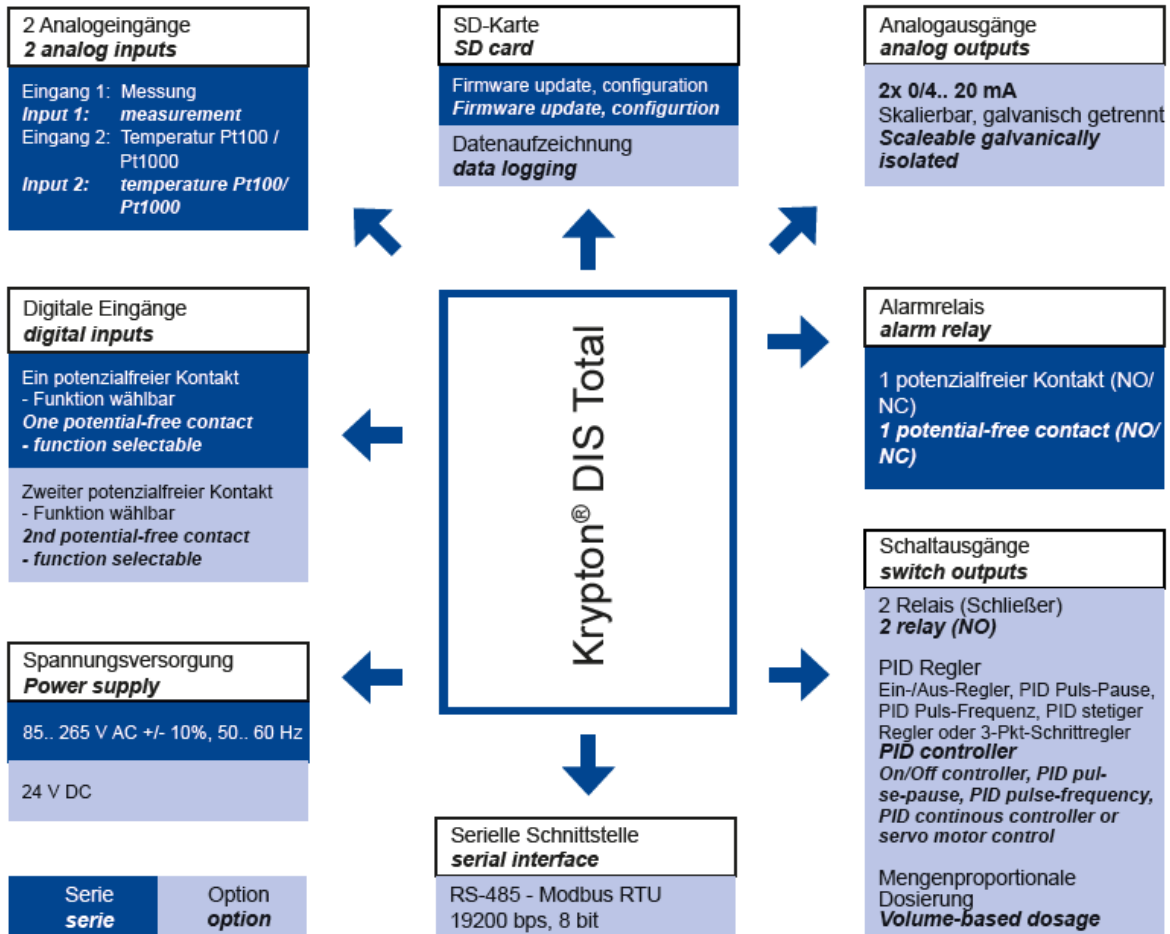


Cooling Water



Waste Water
Treatment

2.3.3 Interface diagram



2.3.4 Technical data

Measuring range

Total Chlorine Up to 1000 µg/l, up to 5.00 mg/l / 10.00 mg/l / 20.00 mg/l

Input characteristics

Temperature measuring range -30.. +140 °C / -22.. 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 / 32.. 122 °F
Pressure:	< 6 bar, 20 °C (87 psi, 68 °F)

Output characteristics

Alarmrelay 1 potential-free N/O contact, max. 250 V, 6 A, 550 VA (insertable)

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

Load:	Max. 500 Ohm
Registration range:	Scaleable with 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	pH	6.. 10
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

Proportional to volume

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

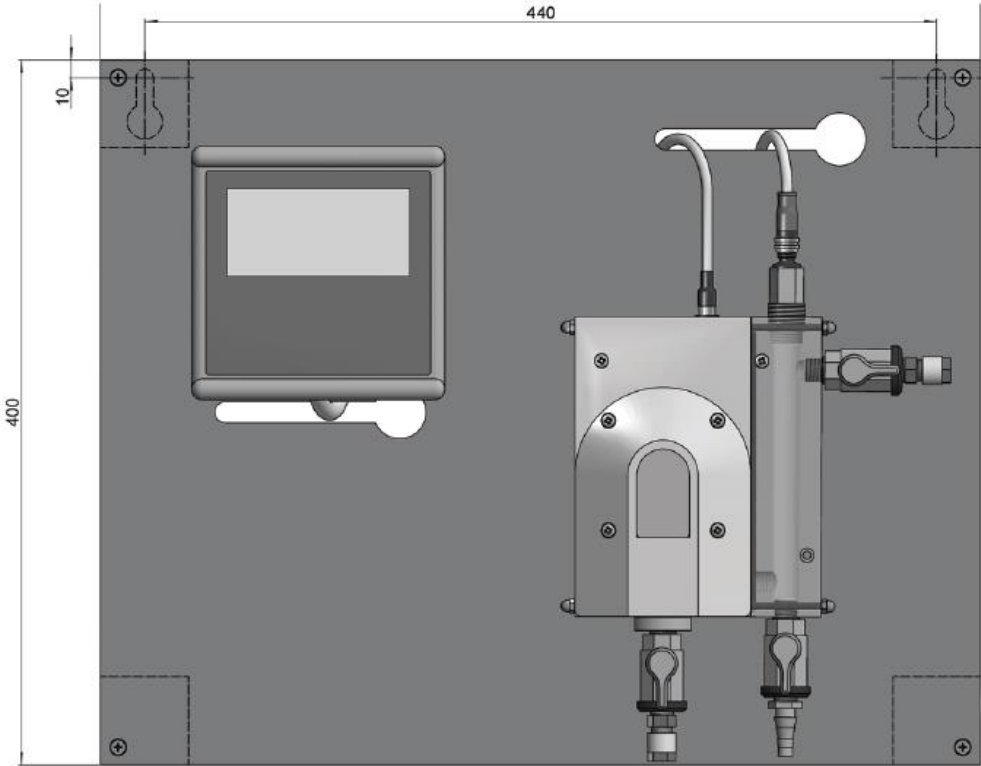
Certificates and approval

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	Board: Assembly: Instrument: Sensor:	PVC PVC ABS Glass, Plastic / Platinum / InnoDisk®
Dimension	400 x 500 mm	
Connection	Cable inlet: Plug-in terminal: Relays / Power supply: Distribution block: Water hose connection:	1 x M16, 2 x M12 Rigid / flexible 0.14 - 1.5 mm ² Rigid / flexible 0.2 - 1 / 0.2 - 1.5 mm ² Rigid / flexible 0.5 - 1.5 / 0.5 - 1.5 mm ² DN 6/8

2.3.5 Mechanical drawing



Krypton® DIS Total

2.3.6 Order information

	Artikel Nr. / Article No.	Beschreibung / Description
Type	70142000K	Krypton® DIS Total (assembly: StabiFlow®), 85.. 265 V AC
	19514101K	24 V DC power supply
Interfaces	19514300K	Modbus RTU
Controller	19514200K	PID with 2 control relays
	19514201K	Volume based dosing with 2 relays* (*only in combination with 2nd digital input: Art. 19514202K)
Inputs	19514202K	Second digital input
Outputs	19514203K	First mA-output
	19514204K	Second mA-output
Special functions	19514205K	Datalogger
Cleaning	19514206K	ASR® Automatic Sensor Cleaning

**Note!**

Choose the components you need and that's how your "assembly version" is designed. We will have to technically inspect and approve a free combination of individual key features.

3. Instruments

3.1 Neon® Multi

3.1.1 Description



Neon® Multi

Multi channel water monitoring instrument

Neon® Multi is a cutting-edge measuring and control instrument for industrial disinfectant applications like in breweries or water worlds.

The entry level version of Neon® Multi is equipped with 3 measurements: disinfection, pH, and temperature. The disinfection measuring input can be configured to measure Free Chlorine, Total Chlorine, Chlorine dioxide, Ozone or Hydrogen peroxide via menu. The measuring range is adjustable. An ORP measurement can be added and even a 5th measuring input for total Chlorine. The entry level version of Neon® Multi offers 6 digital inputs and 8 potential free CO relays as control or as alarm relay. The instruments offers PID as well as 3 point control function with and without position feedback.

Neon® Multi is expandable through software upgrades or add on modules. It is possible to add up to five analog outputs, Automatic Sensor Cleaning ASR®, Modbus and datalogger. Operation is easy and intuitive by an up to date touch screen and a graphical menu. Additionally Neon® Multi assists the operator, e.g. guiding the operator step by step through the calibration procedure, or in the controller parameter settings showing only those parameters relevant for the chosen controller type.

3.1.2 Applications



Disinfection



Industrial Water



Pool & Spa



Drinking Water



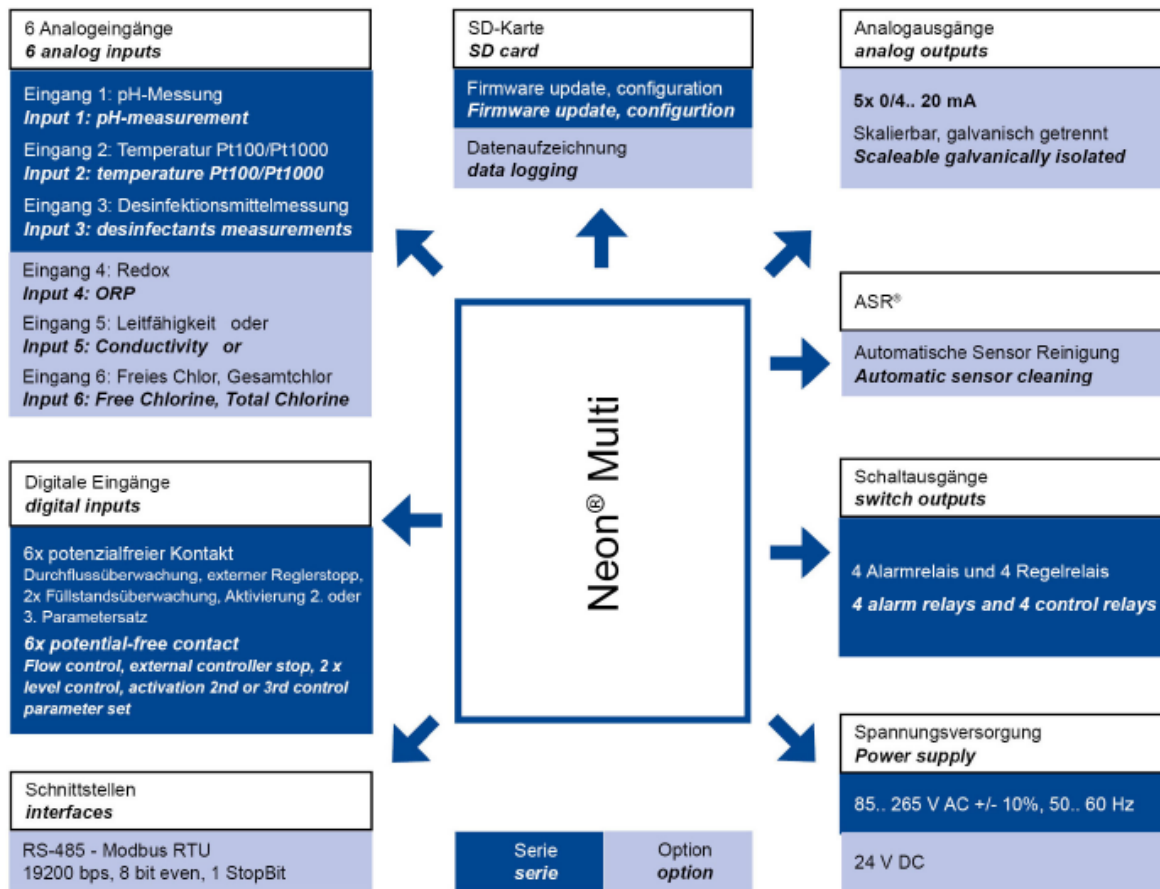
Process Water



Cooling Water

Food &
BeverageWaste Water
Treatment

3.1.3 Interface diagram



3.1.4 Technical data**Measuring range**

Desinfection	Free Chlorine, Chlorine Dioxide, Total Chlorine:	Up to 1000 µg/l, 5.00 / 10.00 / 20.00 mg/l
	Ozone:	Up to 1000 µg/l, 5.00 / 10.00 mg/l
Temperature	Hydrogen Peroxide:	Up to 30.00 mg/l
pH		0.. 50.0 °C (32.. 122 °F)
ORP (optional)		0.. 14.00 pH
5 th measuring input (optional)		-1500.. + 1500 mV
6 th measuring input (optional) (DIS 2)	Conductivity:	Up to 2.000, 20.00, 200.0, 500,0 mS/cm
	Free Chlorine, Total Chlorine:	Up to 1000 µg/l, 5.00 / 10.00 / 20.00 mg/l

Input characteristics

Temperature measuring range		0.. 50 °C (32.. 122 °F)
Temperature compensation		0.0.. 8.0 %/K adjustable coefficient (DIS), nonlinear (pH)
Digital input		Flow control, external controller stop, 2 x level control, activation 2nd opr 3 rd , control parameter set, leakage
Process conditions	pH-range:	6.. 8 pH (free Chlorine) 6.. 9 pH (Chlorine dioxide, Ozone, Hydrogen-peroxide) 6.. 10 pH (Total Chlorine)
Process conditions	Flow:	Depending on assembly
	Conductivity:	> 150 µS/cm
	Temperature:	Depending on sensor, assembly and reference measurement
	Pressure:	Depending on sensor, assembly and reference measurement
Measurement accuracy		+/- 2 % from measuring range end (except Hydrogen Peroxide; H ₂ O ₂ : +/-2 mg/l)
Response time		< 20 s

Output characteristics

Alarmrelay	Up to 4 potentialfree CO, max. 250 V; 2 A, 550 VA ((insertable))	
Output signal	Optional: 5 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
	Dataformat:	8 bit

Power supply

Line voltage	85.. 265 V AC / DC, 50.. 60 Hz
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

Controller

Control parameter	Free Chlorine, pH and other parameter optional
Control response	On / off controller (adjustable hysteresis) P / PI / PID controller (pulse-pause, pulse-frequency or continuous output) 3-point controller with or without position feedback
Relay	4 relays, each a potential-free CO contact, max. 250 V, 2 A, 550 VA
Start delay	0.. 200 sec till controller active
Digital input	See input characteristics
Control parameter set	2nd and optional 3rd parameter set for night operation etc.

Language

Default language	English and German
Other options	Russian, Danish, Dutch, French, Polish, Spanish

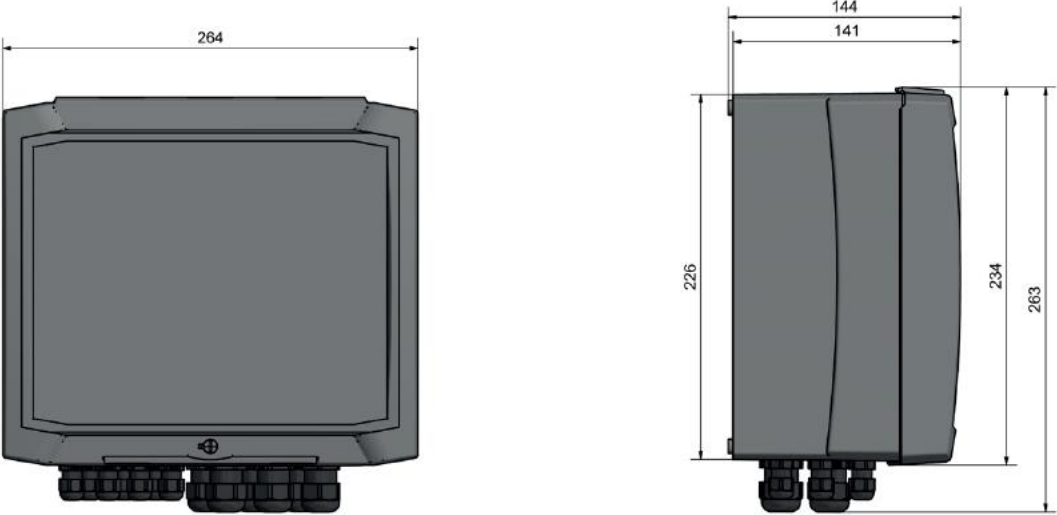
Certificates and approvals

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 61326-1

Design configuration

Material	ABS
Dimension	260 x 254 x 140 mm
Weight	1,9 kg
Connection	Cable inlet: 6 x M16, 10 x M12
	Plug-in terminal: Rigid / flexibel 0.14 - 1.5 mm ²
	Relays / Power supply: Rigid / flexibel 0.2 - 1 / 0.2 - 1.5 mm ²
	Distribution block: 0,5 - 1,5 / 0,5 - 1,5 mm ²

3.1.5 Mechanical drawing



Neon® Multi

3.1.6 Order information

	Artikel Nr. / Article No.	Beschreibung / Description
Type	153000K	Neon® Multi (Measuring range: disinfection, pH, Temperatur), 85.. 265 V AC
	153001K	Neon® Multi (Measuring parameter: disinfection, pH, Temperatur), 24 V DC
Further measuring parameter	19515010K	ORP (Software Add-on)
	49015000K	Conductivity (Software Add-on, Conductivity sensor measuring cable, measurement converter)* *not in combination with DIS 2
	19515001K	Second free or Total Chlorine measurement (Software Add-on; DIS 2)
Interfaces	19514300K	Modbus RTU
Output	19515007K	Five mA-outputs
Special functions	19515008K	Datalogger
Cleaning	19515009K	ASR® - Automatic Sensor Cleaning (only DIS 1)

**Note!**

Choose the components you need and that's how your "assembly version" is designed. We will have to technically inspect and approve a free combination of individual key features.

3.2 Neon® DIS

3.2.1 Description



Neon® DIS

Single channel water monitoring instrument

The Neon® DIS is a leading edge measurement and control instrument and its range of functions can be tailored according to your application.

The entry level version contains input / outputs for measurement and temperature, touch screen, a digital input and a alarm relay. The Neon® is expandable through software upgrades and add on modules. It is possible to add up to two additional analogue outputs, control functions either concentration-based or volume-based, modbus interface and Datalogger. The information displayed on the screen can be selected by the user. With multiple installations the same settings within the software can be duplicated in additional instruments using industry standard SD- cards.

The Neon® 'Touch' is simplicity in a small package, it has an up to date touch screen to navigate through the Neon® menus easily and intuitively. The Neon® DIS can be used for the measurement of Free Chlorine, Chlorine dioxide, Ozone, and Hydrogen peroxide.

3.2.2 Applications



Disinfection



Industrial Water



Pool & Spa



Drinking Water



Process Water



Cooling Water

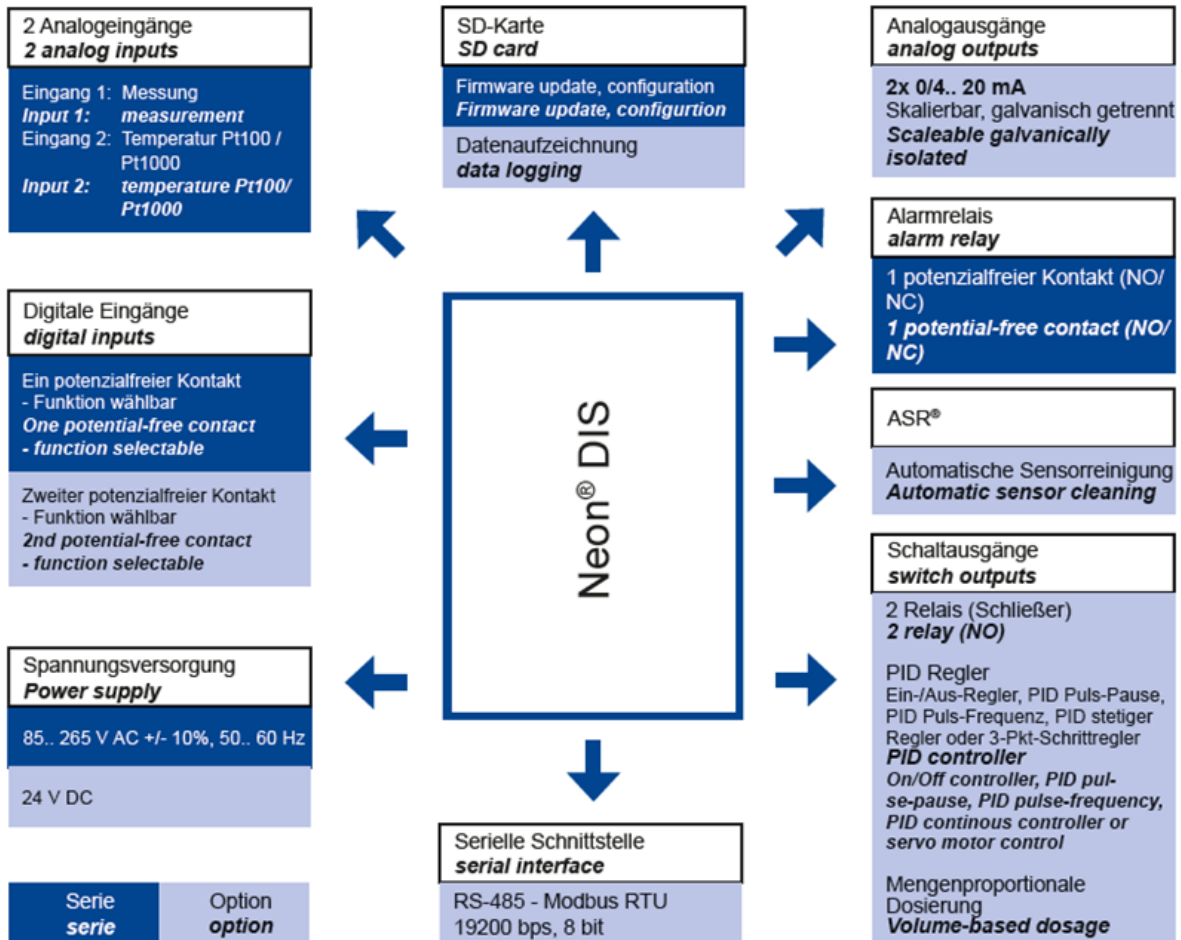


Food &
Beverage



Waste Water
Treatment

3.2.3 Interface diagram



3.2.4 Technical data

Measuring data

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 characteristics

Temperature measuring range	-30.. +140 °C / -22.. 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
Measurement accuracy	+/- 2 % from measuring range end (except Hydrogen Peroxide; H ₂ O ₂ : +/-2 mg/l)	
Response time	< 20 s	

Output characteristics

Alarmrelay	1 potential-free N/O contact, max. 250 V, 6 A, 550 VA (insertable)	
Output signal	Option: 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
	Dataformat:	8 bit

Power supply

Line voltage	85.. 265 V AC, +/-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 volume

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	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	ABS Panel mounted housing: 138 x 138 x 83 mm (max. wall thickness: 5 mm) Wall mounted housing: 144 x 144 x 156 mm 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 terminals: Rigid / flexible 0.2 - 2.5 mm ² / 0.2 - 2.5 mm ² Measurement: Rigid / flexible 0.2 - 1 mm ² / 0.2 - 1.5 mm ²

3.2.5 Mechanical drawing



Neon® DIS

3.2.6 Order information

	Artikel Nr. / Article No.	Beschreibung / Description
Type	142200K	Neon® DIS (1 digital input and alarm relay), 85.. 265 V AC
	19514101K	24 V DC power supply
Interfaces	19514300K	Modbus RTU
Controller	19514200K	PID with 2 control relays
	19514201K	Volume based dosing with 2 relays* *only in combination with 2nd digital input (Art. 19514202K)
Inputs	19514202K	Second digital input
Outputs	19514203K	First mA Output
	19514204K	Second mA Output
Special functions	19514205K	Datalogger
Cleaning	19514206K	ASR® - Automatic Sensor Cleaning (only Cl2, ClO2, O3 and H2O2)
Housing	19514000	Panel mounted(Front IP 54)
	19514001K	Wall mounted (IP 65)

**Note!**

Choose the components you need and that's how your "assembly version" is designed. We will have to technically inspect and approve a free combination of individual key features.

3.3 Neon® GAS

3.3.1 Description



Neon® GAS

Dual channel gas warning instrument

Neon® GAS is a leading edge gas detection and warning instrument. Its range of functions can be tailored according to customers' applications. The entry level version contains two inputs for gas detection, one temperature input, one digital input and three alarm relays.

Various add-ons are available to expand the functionality as well as wall mounted or panel mounted housing. Neon's® GAS detection can be monitored at any time, from any place, on any device via Kuntze's Cloud Connect® service. All Kuntze products are Made in Germany.

3.3.2 Applications



Pool & Spa



TLV Monitoring



Warehouse
Exhaust Air

3.3.3 Technical data**Measuring range**

Chlorine Gas	Up to 10.00 ppm
Chlorine Dioxide Gas	Up to 1.00 ppm
Ozone Gas	Up to 1.00 ppm

Input characteristics

Temperature measuring range	0.. +40 °C / 32.. 104 °F
Humidity	15.. 90 % (non-condensing)
Other influences	Avoid a sudden change in humidity or draught
Digital input	2 (e.g. for switch or door contact)

Output characteristics

Alarm relay	1 potential-free N/O contact, max. 250 V, 6 A, 550 VA (insertable) 2 relays, each with a potential-free N/O contact, max 250 V, 6 A, 550 VA	
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	2x ±6 V DC for sensors	
Storage media	SD card up to 1 GB - Industry standard	
Serial interface	Option: RS 485 Modbus RTU	
	Baud Rate:	19200 bps
	Dataform:	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)

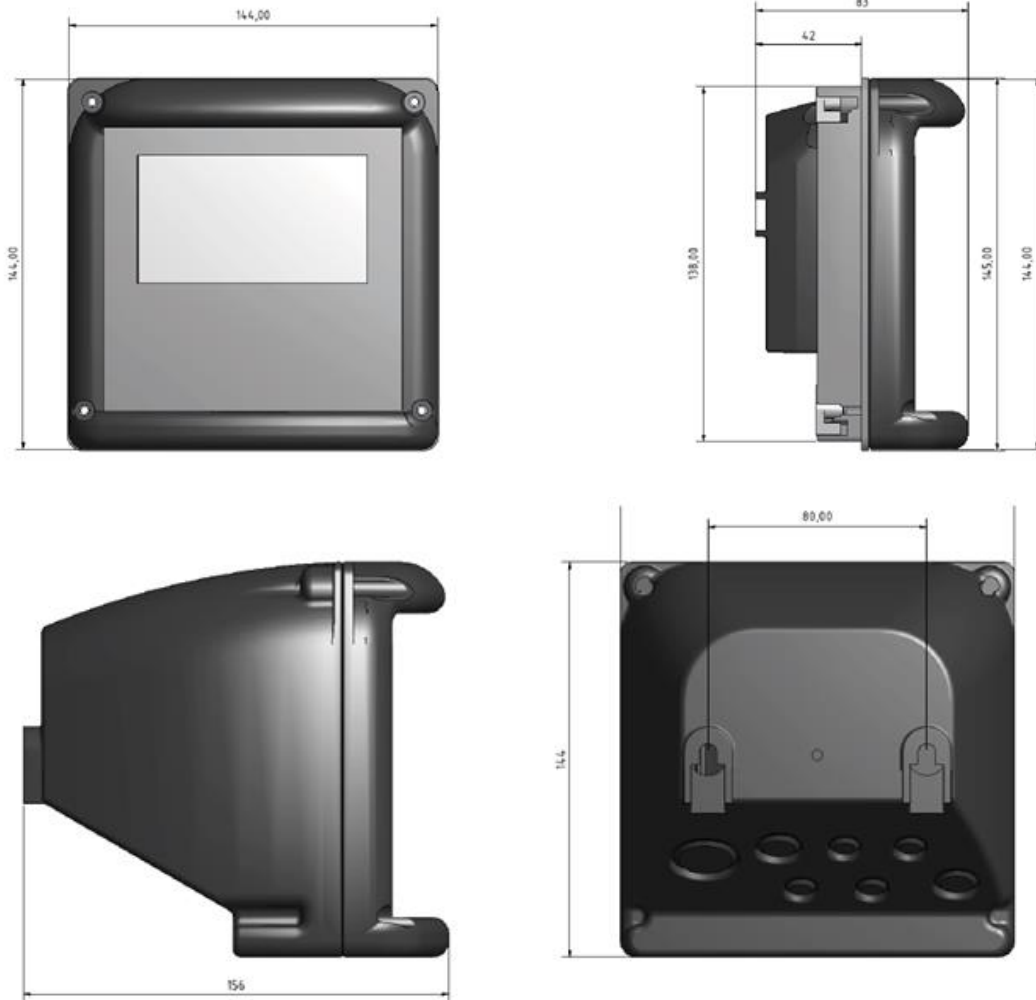
Certificates and approval

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 61326-1

Design configuration

Material	ABS
Dimensions	Panel mounted housing: 138 x 138 x 83 mm (max. wall thickness: 5mm) Wall mounted housing: 144 x 144 x 156 mm 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 mm ² / 0.2 - 2.5 mm ² Measurement: Rigid / flexible 0.2 - 1 mm ² / 0.2 - 1.5 mm ²

3.3.4 Mechanical drawing



Neon® GAS

3.3.5 Order information

	Artikel Nr. / Article No.	Beschreibung / Description
Type	142200K	Neon® GAS (1 digital inputs and 3 Alarm relays) 85.. 265 V AC
	19514101K	24 V DC power supply
Interfaces	19514300K	Modbus RTU
Inputs	19514202K	Second digital input
Outputs	19514203K	First mA output
	19514204K	Second mA output
Special function	19514205K	Datalogger
Housing	19514000	Panel mounted (Front IP 54)
	19514001K	Wall mounted (IP 65)

**Note!**

Choose the components you need and that's how your "assembly version" is designed. We will have to technically inspect and approve a free combination of individual key features.

4. Automatic Sensor Cleaning

4.1 ASR[®]

4.1.1 Description



ASR[®] is Kuntze's Automatic Sensor Cleaning process

The Automatic Sensor Cleaning is a highly efficient process to clean electrode surfaces. During the cleaning process, Hydrogen and Oxygen are produced at the electrode surfaces, blasting away even persistent coatings. Additionally, Oxygen oxidizes organic coatings, and Hydrogen reduces organic and inorganic substances, especially iron and manganese oxides. Excess gas recombines to water and do not interfere with the measurement or the process.

Benefits

- Without manual cleaning
- No refill of chemical or physical agents
- Strongly reduced calibration demand

4.1.2 ASR® - frequently asked questions

Can I use ASR® on coated sensors?

Yes. You can use ASR® for already coated sensors. You might need more than one cleaning cycle. After cleaning you will probably need to recalibrate, because by removing the coating the slope of the sensor can rise. ASR® should be used from the start, to keep the electrodes clean, because then the slope of the sensor is maintained and there is no need to recalibrate.

How many times is a cleaning necessary?

A cleaning once a week is usually adequate. We recommend to raise the number of cleanings only, if the measured values decrease visible within a few days.

Do I need to recalibrate after cleaning?

No. The cleaning is supposed to maintain the original slope of the sensor, not to change it. If the cleaning runs from the start, the slope should change so little over the time that a recalibration is not necessary. Only calibrate if the value is still much higher immediately before the next cleaning. Generally never calibrate directly after cleaning, so that the calibration does not fall into the abated polarization phase. That's the reason why we lock the calibration menu for five minutes. During this time the status message „cleaning in progress” is shown in the display.

I cannot use the calibration menu - why?

The measured value is locked for five minutes in the display, in the output signal and also for the controller, in order to give the electrode time to polarize. During this time the status message „cleaning in progress” is shown in the display, and the calibration menu is locked.

Can I use ASR® under all circumstances?

The Automatic Sensor Cleaning should not be used ultra pure water or other deionized media.

Is ASR® also suitable for sea water?

Yes, we developed a special Zirkon® DIS pool sensor with platinum-graphite electrodes.

Is ASR® available for pH sensors?

No, sorry. The glass membrane cannot be cleaned electrochemically. However, ASR® is now available for conductivity sensors.

4.1.3 Storage version**Artikel Nr. /
Article No.****Beschreibung /
Description**

19514206K

ASR® Automatic Sensor Cleaning as add-on for Neon® DIS
and Krypton® DIS

5. Sensors

5.1 Zirkon® DIS

5.1.1 Description



Art. No.: S24135130K

Order Code:
23152110

Art. No.: S24135140K

Order Code:
231612500

Art. No.: S24135230K

Order Code:
231212110

Art. No.: S24135260K

Order Code:
231712500

Zirkon® DIS are potentiostatic sensors, measuring parameter and range are defined by the connected instrument. A defined potential is applied to the measuring electrode resulting in an electrical charge. Disinfectant molecules remove part of the charge in an ORP reaction. Is the counter electrode part of the assembly you should use sensors with one electrode (ring or plate). If you use an assembly without counter electrode choose a Zirkon® DIS with two electrodes (double ring).

Benefits

- Low maintenance
- Automatic cleaning by ASR® possible
(Art. No.: S24135140K, S24135260K)
- Zero point stable

5.1.2 Applications

Disinfection



Industrial Water



Drinking Water



Process Water



Cooling Water

5.1.3 Technical data

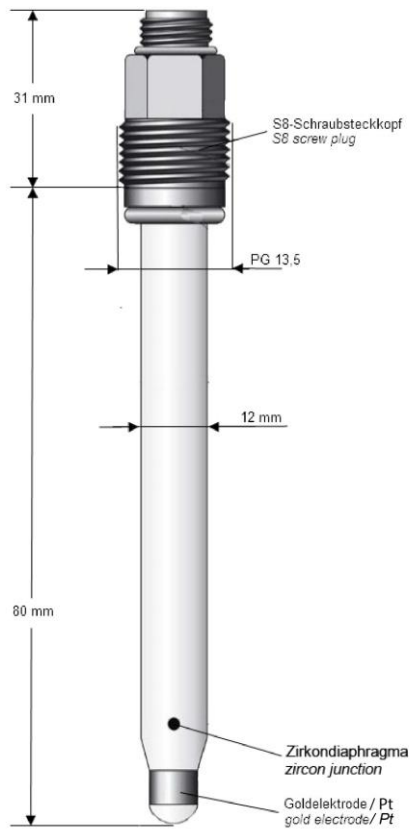
Prozessbedingungen / Ambient conditions

Druck. / <i>Pressure</i>	10 bar bei 20 °C / 10 bar at 20 °C / 68 °F
Leitfähigkeit / <i>Conductivity</i>	>150 µS/cm, mit ASR®, > 200 µS/cm / >150 µS/cm, with ASR®, > 200 µS/cm
Temperature / <i>Temperature</i>	-5.. +70 °C / -5.. +70 °C / 23..158 °F

Konstruktiver Aufbau / Mechanical construction

Diaphragma / <i>Junction</i>	Zirkon 1 mm / Zircon 1mm
Schaftmaterial / <i>Shaft material</i>	Glas / Glass
Schaftlänge / <i>Shaft length</i>	80 mm, 120 mm
Elektrodenmaterial / <i>Electrode material</i>	Platinring, Platinkuppe, Goldring, 2 Goldringe oder 2 Platinringe / Platinum ring, Platinum cap, Gold ring, 2 Gold rings or 2 Platinum rings
Bezugssystem / <i>Reference system</i>	Ag, AgCl, Tepoxgel 3mol KCl / Ag, AgCl, Tepox gel 3mol KCl
Mechanischer Anschluss / <i>Process connection</i>	S8-Stecker (PG 13,5 - drehbar), M12-Stecker (PG 13,5 - drehbar) / S8-plug (PG 13.5 - swivel), M12-plug (PG 13.5 - swivel)
Elektrischer Anschluss / <i>Electrical Connection</i>	S8 (2-polig), M12 (5-polig) / S8 (2-poles), M12 (5-poles)

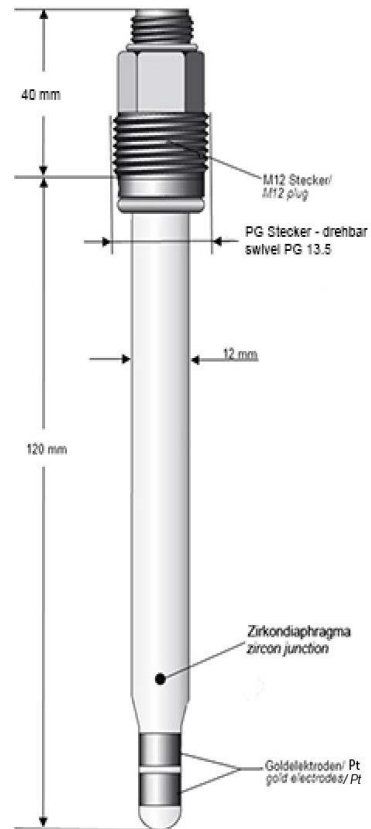
5.1.4 Mechanical drawing



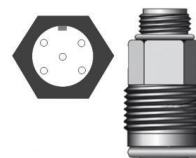
Art. No.: S24135130K / S24135230K
 Order Code: 23152110 / 231212110



S8-plug



Art. No.: S24135140K / S24135260K
 Order Code: 231612500 / 231712500



M12-plug

5.1.5 Order information

	Article Nr. / Article No.	Description / Description
Gruppe / Group	231	Zirkon® DIS
Elektrodenmaterial / Electrode material	2	Platinring <i>Platinum ring</i>
	5	Goldring / <i>Gold ring</i>
	6	2 Goldringe / <i>2 Gold rings</i>
	7	2 Platinringe / <i>2 Platinum rings</i>
	9	Sonderanfertigung / <i>Special</i>
Diaphragma / Junction	1	Zirkon 1 mm / <i>Zircon 1 mm</i>
	9	Sonderanfertigung / <i>Special</i>
Elektrolyt / Electrolyte	2	Tepoxgel 3mol KCl / <i>Tepox gel 3mol KCl</i>
	9	Sonderanfertigung / <i>Special</i>
Anschluss / Connection	1	S8-Stecker (PG 13,5 - drehbar) / <i>S8-plug (swivel PG 13.5)</i>
	5	M12-Stecker (PG 13,5 - drehbar) / <i>M12-plug (swivel PG 13.5)</i>
	9	Sonderanfertigung / <i>Special</i>
	9	Sonderlänge / <i>Special length</i>
Länge / Length	0	120 mm
	1	80 mm

**Sonstiges/
Special**

0 Keine /
None

9 Sonderanfertigung /
Special



Note!

If possible, choose items listed under „storage versions“ or „assembly versions“ for your orders. We will have to technically inspect and approve a free combination of individual key features.

Prices on request

5.1.6 Storage version

Artikel Nr. / Article No.	Typ / Type	Beschreibung / Description
S24135130K	231512110	DIS sensor: 1 Gold ring, Zirkon junction 1 mm, Tepox gel 3mol KCl, S8-plug (swivel PG 13.5), 80 mm
S24135140K	231612500	DIS sensor: 2 Gold rings, Zirkon junction 1 mm, Tepox gel 3mol KCl, M12-plug (swivel PG 13.5), 120 mm
S24135230K	231212110	DIS sensor: 1 Platinum ring, Zirkon junction 1 mm, Tepox gel 3mol KCl, S8-plug (swivel PG 13.5), 80 mm
S24135260K	231712500	DIS sensor: 2 Platinum rings, Zirkon junction 1 mm, Tepox gel 3mol KCl, M12-plug (swivel PG 13.5), 120 mm

5.2 Zirkon® DIS Total

5.2.1 Description



Art. No.: S24135440K

Order Code: 239412500

Zirkon® DIS Total is an open potentiostatic sensor for measuring chlorine compounds. Sensors - Made in Germany.

Benefits

- No exchange of membrane
- No exchange of electrolyte
- No delicate plastic membrane
- Immune to air bubbles

5.2.2 Applications



Disinfection



Industrial Water



Drinking Water



Cooling Water

5.2.3 Technical data

Messparameter / Measuring Parameter

Gesamtchlor / Total Chlorine to 1000 µg/l; 5,00 / 10,00 / 20,00 mg/l

Prozessbedingungen / Ambient conditions

Druck. / Pressure < 6 bar bei 20 °C / < 6 bar at 20 °C / 68 °F

Leitfähigkeit / Conductivity > 150 µS/cm

Temperature / Temperature 0..+50 °C / 32..122 °F

Konstruktiver Aufbau / Mechanical construction

Diaphragma / Junction Zirkon 1 mm / Zircon 1mm

Schaftmaterial / Shaft material Glas / Glass

Schaftlänge / Shaft length 120 mm

Schaftdurchmesser / Shaft diameter 12 mm

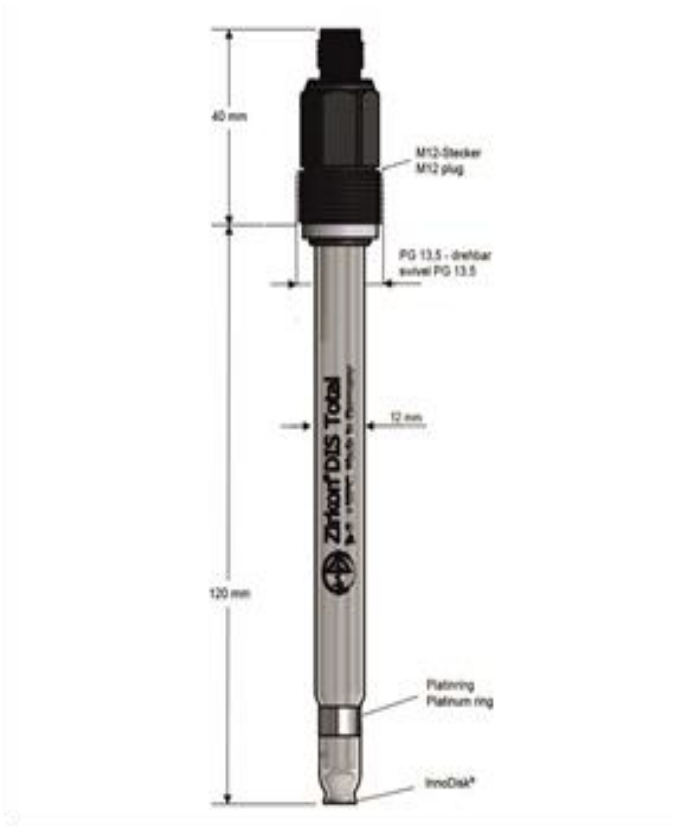
Elektrodenmaterial / Electrode material Platinring + Innodisk® / Platinum ring + Innodisk®

Bezugssystem / Reference system Ag, AgCl, Tepoxgel 3mol KCl / Ag, AgCl, Tepox gel 3mol KCl

Mechanischer Anschluss / Process connection M12-Stecker (PG 13,5 - drehbar) / M12-plug (PG 13.5 - swivel)

Elektrischer Anschluss / Electrical connection 5-polig / 5-poles

5.2.4 Mechanical drawing



Art. No.: S24135440K

Order Code: 239412500

5.2.5 Order information

	Artikel Nr./ Article No.	Beschreibung/ Description
Gruppe / Group	239	Zirkon® DIS Total
Elektrodenmaterial / Electrode material	4	Platinring + Innodisk®/ <i>Platinum ring + Innodisk®</i>
Diaphragma / Junction	1	Zirkon 1 mm / <i>Zircon 1 mm</i>
	9	Sonderanfertigung / <i>Special</i>
Anschluss / Connection	2	M12-Stecker / M12-plug
	9	Sonderanfertigung / <i>Special</i>
Elektrolyt / Electrolyte	2	Tepoxgel 3mol KCl / <i>Tepox gel 3mol KCl</i>
	9	Sonderanfertigung / <i>Special</i>
Länge / Length	0	120 mm
	9	Sonderlänge / <i>Special length</i>
Sonstiges / Special	0	Keine / <i>None</i>
	9	Sonderanfertigung / <i>Special</i>

**Note!**

If possible, choose items listed under „storage versions“ or „assembly versions“ for your orders. We will have to technically inspect and approve a free combination of individual key features

Prices on request.

5.2.6 Storage version

Artikel Nr. / Article No.	Typ / Type	Beschreibung / Description
S24135440K	239412500	DIS Total-Sensor: InnoDisk®, Platinum ring, Zirkon junction 1 mm, Tepox gel 3mol KCl, M12-plug (swivel PG 13.5)

5.3 Zirkon® DIS Pool

5.3.1 Description



Art. No.:
S24135145K

Order Code:
237613500



Art. No.:
S24135150K

Order Code:
237813500



Art. No.:
S24135155K

Order Code:
237913990



Art. No.:
S24135156K

Order Code:
23791379K016



Art. No.:
S24135288K

Order Code:
237513110

Zirkon® DIS Pool are potentiostatic sensors, measuring parameter and range are defined by the connected instrument. A defined potential is applied to the measuring electrode resulting in an electrical charge. Disinfectant molecules remove part of the charge in an ORP reaction. Is the counter electrode part of the assembly you should use sensors with one electrode (ring or plate). If you use an assembly without counter electrode choose a sensor with two electrodes (double ring). The salt reservoir of the reference electrodes leads to a longer lifetime.

Benefits

- Low maintenance
- Automatic cleaning by ASR® or mechanically
- Zero point stable

5.3.2 Applications

Pool & Spa

5.3.3 Technical data

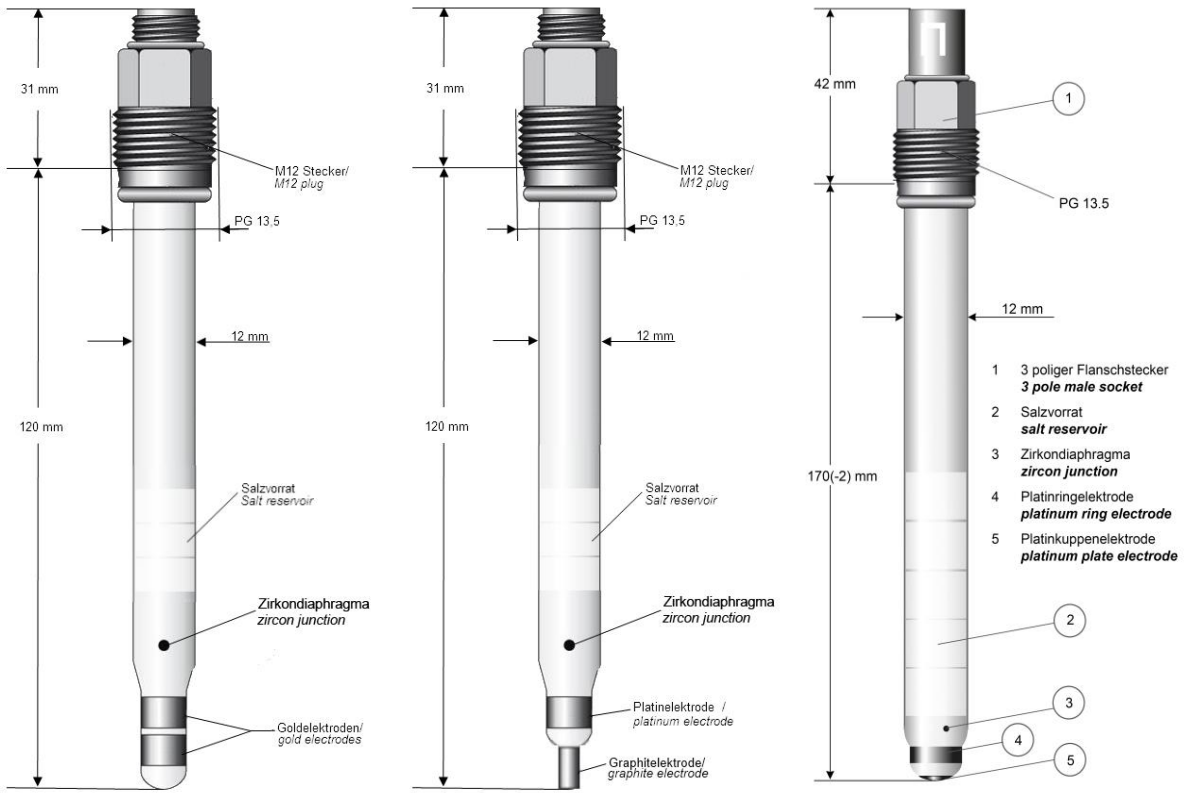
Prozessbedingungen / Ambient conditions

Druck / <i>Pressure</i>	< 10 bar bei 20 °C / < 10 bar at 20 °C / 68 °F
Leitfähigkeit / <i>Conductivity</i>	>150 µS/cm, mit ASR®, > 200 µS/cm / >150 µS/cm, with ASR®, > 200 µS/cm
Temperature / <i>Temperature</i>	0..+50 °C / 32..122 °F

Konstruktiver Aufbau / Mechanical construction

Diaphragma / <i>Junction</i>	Zirkon 1mm / <i>Zircon 1mm</i>
Schaftmaterial / <i>Shaft material</i>	Glas / <i>Glass</i>
Schaftlänge / <i>Shaft length</i>	80 mm / 120 mm / 155 mm / 170 mm
Schaftdurchmesser / <i>Shaft diameter</i>	12 mm
Elektrodenmaterial / <i>Electrode material</i>	Platinring, Platinkuppe, Goldring, 2 Goldringe oder 2 Platinringe, Grafitstab / <i>Platinum ring, Platinum cap, Gold ring, 2 Goldrings or 2 Platinum rings, Graphite pin</i>
Bezugssystem / <i>Reference system</i>	Ag, AgCl, Tepoxgel 3mol KCl / <i>Ag / AgCl, Tepox gel 3mol KCl</i>
Mechanischer Anschluss / <i>Process connection</i>	S8-Stecker (PG 13,5 - drehbar), M12-Stecker (PG 13,5 - drehbar), Flansch (PG 13,5 – drehbar) / <i>S8-plug (PG 13.5 - swivel), M12-plug (PG 13.5 - swivel), male Socket ((PG 13.5 - swivel)</i>
Elektrischer Anschluss / <i>Electrical connection</i>	2-polig / 3-polig / 5-polig / Festkabel <i>2-poles / 3-poles / 5-poles / fixed pflug</i>

5.3.4 Mechanical drawing



Art. No.: S24134145K

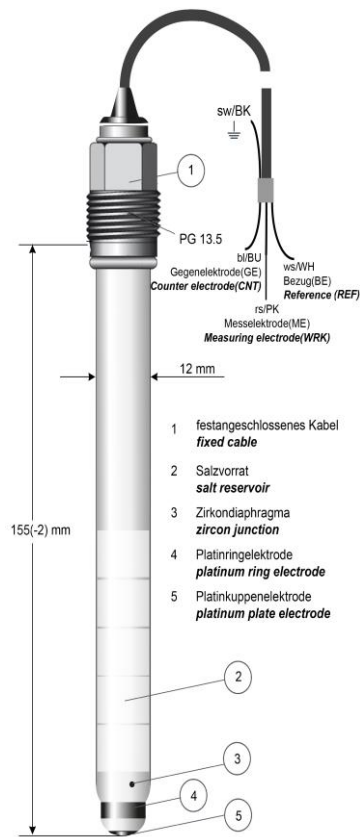
Order code: 237613500

Art. No.: S24135150K

Order code: 237813500

Art. No.: S24135155K

Order code: 237913990



Art. No.: S24135156K

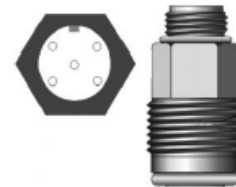
Order code: 23791379K016



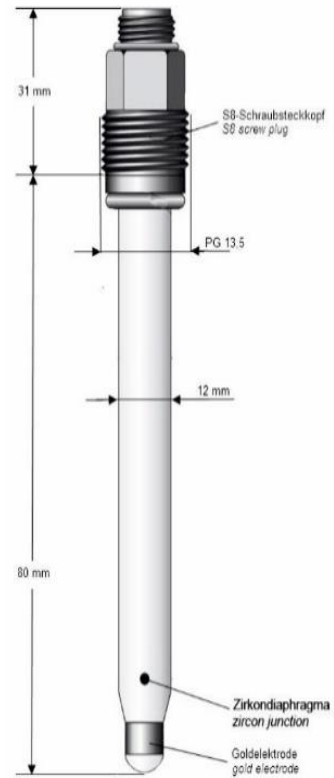
Male-socket



S8-plug



M12-plug



Art. No.: S24135288K

Order code: 237513110

5.3.5 Order information

	Artikel Nr./ Article No.	Beschreibung/ Description
Gruppe / Group	237	Zirkon® DIS Pool
Elektrodenmaterial / Electroden material	2	Platinring / <i>Platinum ring</i>
	5	Goldring / <i>Gold ring</i>
	6	2 Goldringe / <i>2 Gold ring</i>
	7	2 Platinringe / <i>2 Platinum ring</i>
	8	Platinring - Graphitstift / <i>Platinum ring- Graphite pin</i>
	9	Sonderanfertigung / <i>Special</i>
Diaphragma / Junction	0	Kein / <i>None</i>
	1	Zirkon 1 mm / <i>Zircon 1 mm</i>
	9	Sonderanfertigung / <i>Special</i>
Elektrolyt / Electrolyte	0	Kein / <i>None</i>
	3	Tepoxgel - gesättigt KCl mit Salzvorrat / <i>Tepox gel - saturated KCl with salt resevoir</i>
	9	Sonderanfertigung / <i>Special</i>

Anschluss / Connection	1	S8-Stecker (PG 13,5 - drehbar) / S8-plug (swivel PG 13.5)
	5	M12-Stecker (PG 13,5 - drehbar) / M12-plug (swivel PG 13.5)
	7	Festangeschlossenes Kabel / Fixed cable
	9	Sonderanfertigung / Special
Länge / Length	0	120 mm
	1	80 mm
	9	Sonderlänge / Special length
Sonstiges / Special	0	Kein / None
	K	Kabellänge / Cable length Beispiel: 1 Meter = K01, 10 Meter = K10 Example: 1 m =K01, 10 m = K10
	9	Sonderanfertigung / Special



Notes!

If possible, choose items listed under „storage versions“ or „assembly versions“ for your orders. We will have to technically inspect and approve a free combination of individual key features.

Prices on request.

5.3.6 Storage version

Artikel Nr. / Article No.	Typ / Type	Beschreibung / Description
S24135145K	237613500	DIS-sensor: 2 gold rings, Zircon junction 1 mm, saturated KCL, M12-plug (swivel PG 13.5), 120 mm
S24135150K	237813500	DIS-sensor for brine water: Zircon junction 1 mm, Platinum ring, Graphit pin, saturated. KCl, M12-plug (swivel PG 13.5), 120 mm
S24135155K	237913990	DIS-sensor: 1 Platinum ring and plate, Zircon junction 1 mm, saturated KCl, male socket (swivel PG13.5), 170 mm
S24135156K	23791379K016	DIS-Sensor: 1 Platinum ring and plate, Zircon junction 1 mm, saturated. KCl, 1.6 m fixed cable (swivel PG 13.5), 155 mm
S24135288K	237513110	DIS-sensor: 1 Gold ring, Zircon junction 1 mm, saturated. KCl, S8-plug (swivel PG 13.5), 80 mm

5.4 Zirkon® Gas

5.4.1 Description



Zirkon® Gas Cl₂

Art. No: S29111001K



Zirkon® Gas O₃

Art. No: S29111002K



Zirkon® Gas ClO₂

Art. No: S29111011K

Kuntze Gas Sensors are amperometric sensors for the detection of chlorine gas. The matching fitting Ne GSH allows for an easy installation of the gas sensor.

Benefits

- Short response times
- High reliability
- Simple start-up due to printed calibration value

5.4.2 Applications



Ambient Air
Monitoring



Warehouse
Exhaust Air

5.4.3 Technical data

Messparameter Zirkon® Gas Cl₂ - S29111001K / Measuring parameters Zirkon® Gas Cl₂ - S29111001K

Chlor / Chlorine 0.. 20 ppm*
*Der Messbereich des Geräts kann abweichen. /
Range of measurement device can deviate.

Prozessbedingungen / Process conditions

Ansprechzeit (T₉₀) /
Response time (T₉₀) < 60 s

Temperatur /
Temperature -20..40 °C /
-4..104 °F

Luftfeuchtigkeit /
Humidity 15.. 90 % rH (nicht kondensierend / *uncondensing*)

Lagerdauer /
Storage period Max. 6 Monate in Container, bei +4.. 10 °C /
Max. 6 months in container, at +4... 10 °C / 39.2.. 50 °F

Einfluss der Feuchtigkeit /
Influence of humidity Kein Effekt auf den Nullpunkt /
No effect on the zero point

Luftdruck /
Air pressure 800-1200 hPa

Querempfindlichkeit Chlorgas-Sensor bei 20 °C / Cross-sensitivity Chlorine gas at 20 °C

Gas	Konzentration / Concentration	Abgelesener Wert / Measured value
Kohlenmonoxid / Carbon monoxide	100 ppm	0 ppm
Chlordioxid / Chlorine Dioxide	1 ppm	0.5 ppm
Wasserstoff / Hydrogen	3000 ppm	0 ppm
Schwefelwasserstoff (H ₂ S)*/ Hydrogen sulfide (H ₂ S) *	20 ppm	-2 ppm*
Isopropanol / Isopropanol	600 ppm	0 ppm
Nitrogen Dioxide / Stickstoffdioxid	10 ppm	< 1 ppm
Schwefeldioxid / Sulphur Dioxide	10 ppm	0 ppm

Ozon / <i>Ozone</i>	0.25 ppm	0.2 ppm
Chemischer Filter / <i>Chemical Filter</i>		Nein / <i>None</i>

* Eine kontinuierliche Messung im ppm-Bereich kann den Sensor blockieren. /
Continuous exposure at ppm level might blind the sensor.



Note!

The influencing factor can vary from sensor to sensor and over the life span of the individual sensor. No claim to completeness of the data, the sensors can potentially exhibit cross sensitivity to other gases.

5.4.4 Technical data

Messparameter Zirkon® Gas O₃ - S29111002K / Measuring parameters Zirkon® Gas O₃ - S29111002K

Ozon / Ozone 0.. 1 ppm*
*Der Messbereich des Geräts kann abweichen. /
Range of measurement device can deviate.

Prozessbedingungen / Process conditions

Ansprechzeit (T₉₀) /
Response time (T₉₀) < 60 s

Temperatur /
Temperature -20..40 °C /
-4..104 °F

Luftfeuchtigkeit /
Humidity 15.. 90 % rH (nicht kondensierend / *uncondensing*)

Lagerdauer /
Storage period Max. 6 Monate in Container, bei +4.. 10 °C /
Max. 6 months in container, at +4... 10 °C / 39.2.. 50 °F

Einfluss der Feuchtigkeit /
Influence of humidity Kein Effekt auf den Nullpunkt /
No effect on the zero point

Luftdruck /
Air pressure 800-1200 hPa

Querempfindlichkeit Ozon Gas Sensor bei 20 °C / Cross sensitivity Ozone gas sensor at 20 °C

Gas	Konzentration / Concentration	Abgelesener Wert / Measured value
Kohlenmonoxid / Carbon monoxide	100 ppm	0 ppm
Chlordioxid / Chlorine dioxide	1 ppm	1.5 ppm (tbc)
Wasserstoff / Hydrogen	3000 ppm	0 ppm
Stickstoffdioxid / Nitrogen dioxide	10 ppm	6 ppm
Schwefelwasserstoff (H ₂ S) * Hydrogen sulfide (H ₂ S) *	20 ppm	-1.6 (tbc)*
Isopropanol / Isopropanol	600 ppm	0 ppm
Chlor / Chlorine	1 ppm	1.2 ppm (tbc)

Chemische Filter /
Chemical Filter

Keine /
None

Signale unterhalb der Basislinie werden mit 0 angegeben. / *Signals below baseline are stated as 0*
tbc= muss noch bestätigt werden / *tbc = to be confirmed*

* Dauerhafte Exposition im ppm-Bereich kann den Sensor blockieren. / *Continuous exposure at ppm level might blind the sensor.*



Note!

The influencing factor can vary from sensor to sensor and over the life span of the individual sensor. No claim to completeness of the data, the sensor can potentially exhibit cross sensitivity to other gases.

5.4.5 Technical data

Messparameter Zirkon® Gas ClO₂ - S29111011K / Measuring parameters Zirkon® Gas ClO₂ - S29111011K

Chlordioxid / *Chlorine dioxide* 0.. 1 ppm*
*Der Messbereich des Geräts kann abweichen. /
Range of measurement device can deviate.

Prozessbedingungen / *Process conditions*

Ansprechzeit (T₉₀) /
Response time (T₉₀) < 90 s

Temperatur/
Temperature -20..40 °C /
-4..104 °F

Luftfeuchtigkeit/
Humidity 15.. 90 % rH (nicht kondensierend / *uncondensing*)

Lagerdauer /
Storage period Max. 6 Monate in Container, bei +4.. 10 °C /
Max. 6 months in container, at +4... 10 °C / 39.2.. 50 °F

Einfluss der Feuchtigkeit/
Influence of humidity Kein Effekt auf den Nullpunkt /
No effect on the zero point

Luftdruck /
Air pressure 800-1200 hPa

Querempfindlichkeit Chlordioxid Gas Sensor bei 20 °C / Cross sensitivity Chlorine dioxide gas sensor at 20 °C

Gas	Konzentration / Concentration	Abgelesener Wert / Measured value
Kohlenmonoxid / <i>Carbon monoxide</i>	100 ppm	0 ppm
Wasserstoff / <i>Hydrogen</i>	3000 ppm	0 ppm
Stickstoffdioxid / <i>Nitrogen dioxide</i>	10 ppm	6 ppm (tbc)
Schwefelwasserstoff (H ₂ S)* <i>Hydrogen sulfide (H₂S) *</i>	20 ppm	-5 ppm (tbc)**
Isopropanol / <i>Isopropanol</i>	600 ppm	0 ppm
Chlor / <i>Chlorine</i>	1 ppm	0.5 ppm*

Ozon / Ozone	0.25 ppm	0.15 ppm
Chemische Filter / Chemical Filter		Keine / None

* Signale unterhalb der Basislinie werden als 0 gestartet / *Signals below baseline are started as 0*
tbc = muss noch bestätigt werden / *tbc = to be confirmed*

*1 bis 5 ppm Chlor können zur Querkalibrierung verwendet werden (bbc) / **1 to 5 ppm chlorine may be used for cross calibration (tbc)*

** Eine kontinuierliche Messung im ppm-Bereich kann den Sensor blockieren. / *** Continuous exposure at ppm level might blind the sensor.*



Note!

The influencing factor can vary from sensor to sensor and over the life span of the individual sensor. No claim to completeness of the data, the sensor can potentially exhibit cross sensitivity to other gases.

5.4.6 Storage version

Artikel Nr. / Article No.	Typ / Type	Beschreibung / Description
S29111001K	Zirkon [®] Gas Cl ₂	Sensor for measuring Chlorine gas
S29111002K	Zirkon [®] Gas O ₃	Sensor for measuring Ozone
S29111011K	Zirkon [®] Gas ClO ₂	Sensor for measuring Chlorine dioxide

5.5 Zirkon® Temperature sensor Pt-55-W

5.5.1 Description



Zirkon® Temperature Pt-55-W

Zirkon® Temperature Pt-55-W is a sensor for measuring temperature Sensors - Made in Germany.

Benefits

- Reed switch included
- Based on resistance change of platin

5.5.2 Technical data**Prozessbedingungen / Process conditions**

Druck /	6 bar bei 20 °C /
Pressure	6 bar at 20 °C / 68 °F

Konstruktiver Aufbau / Mechanical construction

Schaftmaterial / <i>Shaft Material</i>	Kunststoff / Plastics
Elektrischer Anschluss / Electrical connection	M12-Stecker (PG 13,5) / M12-plug (PG 13.5)

5.5.3 Order information

Artikel Nr. / Article No.	Typ / Type	Beschreibung / Description
S24137030K	Pt-55-W	Flow sensor with reed contact and integrated temperature sensor Pt 100

5.6 Flow monitor Zirkon® FTG

5.6.1 Description



Zirkon® FTG

Zirkon® FTG monitors flow and temperature while measuring disinfectants in Kuntze's assembly StabiFlow®. Additionally it can be used as ground.

Benefits

- Brine resistant
- Fast response
- Chemical resistant

5.6.2 Applications



Drinking Water

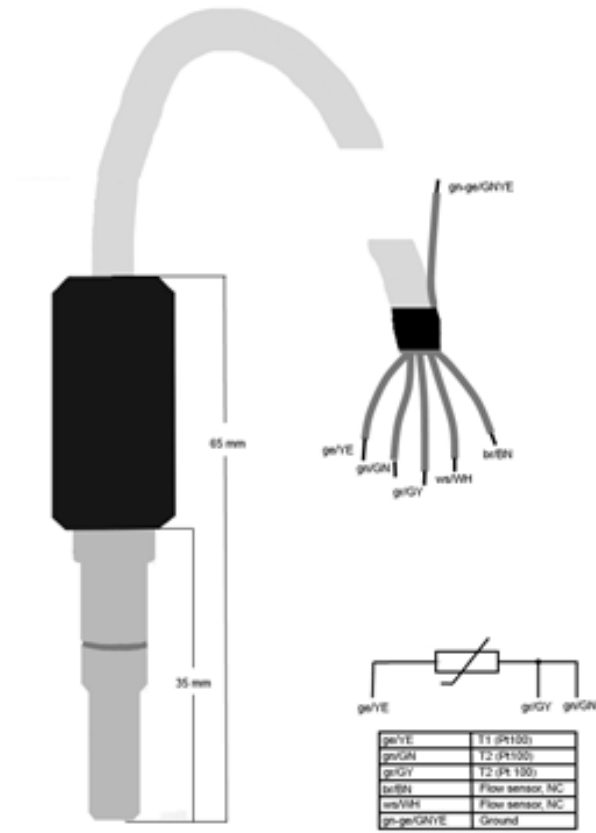


Disinfection



Pool & Spa

5.6.4 Mechanical drawing



Zirkon® FTG

5.6.5 Order information

Artikel Nr. / Article No.	Typ / Type	Beschreibung / Description
24137001K	Zirkon® FTG	Flow monitor, temperature sensor and ground for StabiFlow®

6. Accessories

6.1 Assembly StabiFlow®

6.1.1 Description



Argon® StabiFlow

Assembly for easy and precise measurement of disinfectants

Potentiostatic measurements are flow dependent. The new assembly Argon® StabiFlow provides a constant flow of approx. 30 l/h. This ensures stable, precise and reliable measurement – and long life expectancy of our electrodes. Flow fluctuations no longer show in your measuring curves as long as you have a water inlet above 35 l/h.

Benefits

- Constant flow for a precise disinfectants measurement
- Brine resistant!
- Pressure resistant up to 6 bar (at 20 °C)

Particular characteristics

- Dirt resistant due to construction
- More safety by ball check valve
- Integrated filter - easy to clean
- Flow control with Zirkon® FTG
- Expandable

6.1.2 Technical data**Prozessbedingungen / Ambient conditions**

Druck /
Pressure 6 bar (bei 20 °C) /
6 bar (at 20 °C / 68 °F)

Temperatur /
Temperature 0.. +50 °C / 32..122 °F

Durchfluss /
Flow inlet 35 -400 l/h

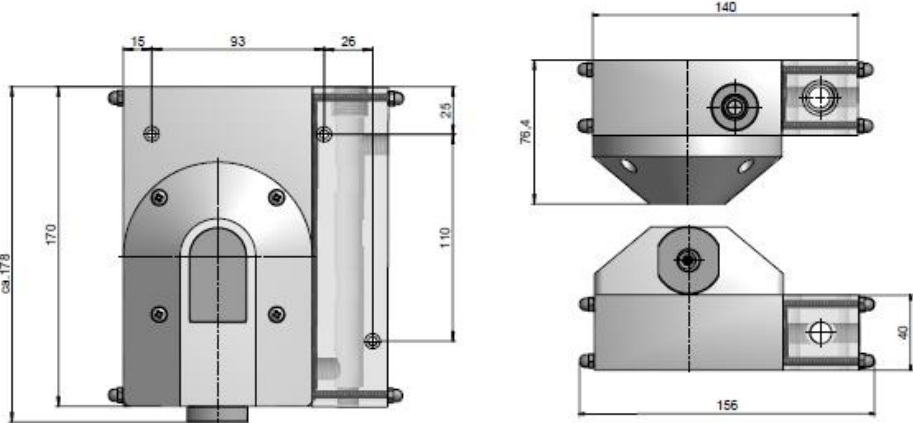
Konstruktiver Aufbau / Mechanical construction

Werkstoff /
Material PVC, PMMA

Maße /
Dimensions 178 x 156 x 76 mm

Einbau /
Installation Zu-/Ablauf: ¼" Innengewinde; Probenahmeahn: ¼" Innengewinde
In-/outlet: ¼" female thread, tube connection DN 6/8

6.1.3 Mechanical drawing



Argon® StabiFlow

6.1.4 Order information

Artikel Nr. / Article No.	Beschreibung / Description
39503000K	StabiFlow® flow assembly (for 1 sensor)
39503010K	StabiFlow® flow assembly (for 2 sensors)
39503020K	StabiFlow® flow assembly (for 3 sensors)
39503030K	StabiFlow® flow assembly (for 4 sensors)

6.2 Assembly Argon® Flow

6.2.1 Description



Photo shows accessories: FTG and float

Assembly for a precise desinfectant measurement

Argon® Flow is a modular assembly which excels by its efficient design. It is assembled and tested. The assembly consists of two chamber: one chamber is equipped with a float and the second is meant for a sensor in 12 mm sensor design.

Benefits

- Integrated flow monitor
- Easy at side extendable
- Pressure resistant up to 6 bar (at 20 °C)

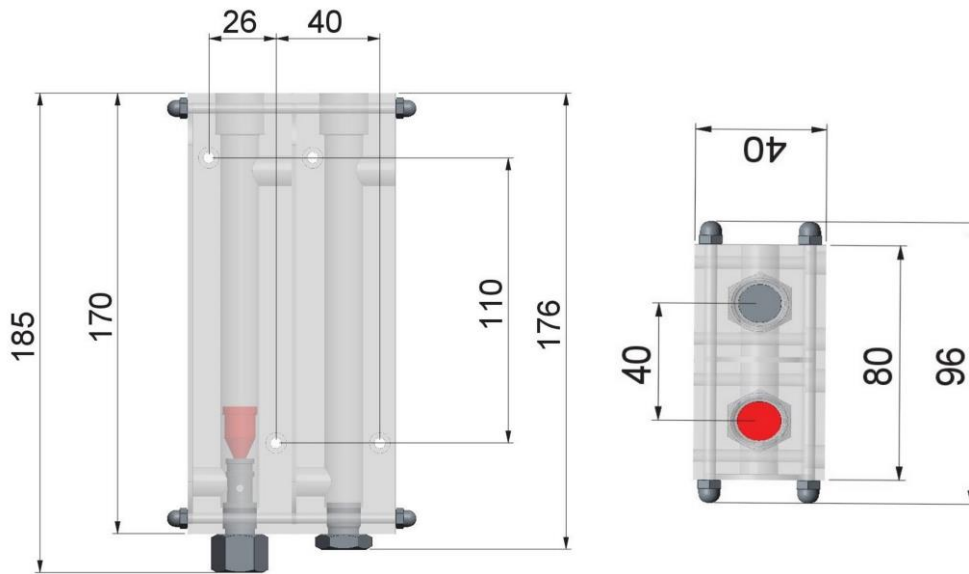
6.2.2 Technical data**Prozessbedingungen/ Ambient conditions**

Druck / <i>Pressure</i>	Max. 6 bar (bei 20 °C) / <i>Max. 6 bar (at 20 °C / 68 °F)</i>
Temperatur / <i>Temperature</i>	0.. +50 °C / 32..122 °F

Konstruktiver Aufbau / Mechanical construction

Werkstoff / <i>Material</i>	Körper: PMMA; Anschlüsse: PVC / <i>Body: PMMA; connectors: PVC</i>
Maße / <i>Dimensions</i>	170 x 80 x 40 mm
Einbau / <i>Installation</i>	Zu-/Ablauf: ¼" Innengewinde; Probenahmeahn: ¼" Innengewinde <i>In-/outlet: ¼" female thread, tube connection DN 6/8</i>

6.2.3 Mechanical drawing



Different models, see article number

6.2.4 Order information

Artikel Nr. / Article No.	Typ / Type
39503003K	Argon® Flow (for 1 sensor)
39503013K	Argon® Flow (for 2 sensors)
39503023K	Argon® Flow (for 3 sensors)

6.3 Assembly GD 3 V (G) (PP)

6.3.1 Description



Assembly GD 3 V (G) (PP)

Flow assembly for installation of a Zirkon® DIS sensor in pipes with *Muffen* for glueing or *Muffen* with 1" female thread. Available in PVC or PP.

All Kuntze products are Made in Germany.

6.3.2 Technical data

Prozessbedingungen / *Ambient conditions*

Druck /
Pressure PVC: 16 bar (bei 20 °C / 68 °F),
PP: 10 bar (bei / at 20 °C / 68°F)

Temperatur /
Temperature PVC: max. 40 °C / 104 °F,
PP: max. 90 °C / 194 °F

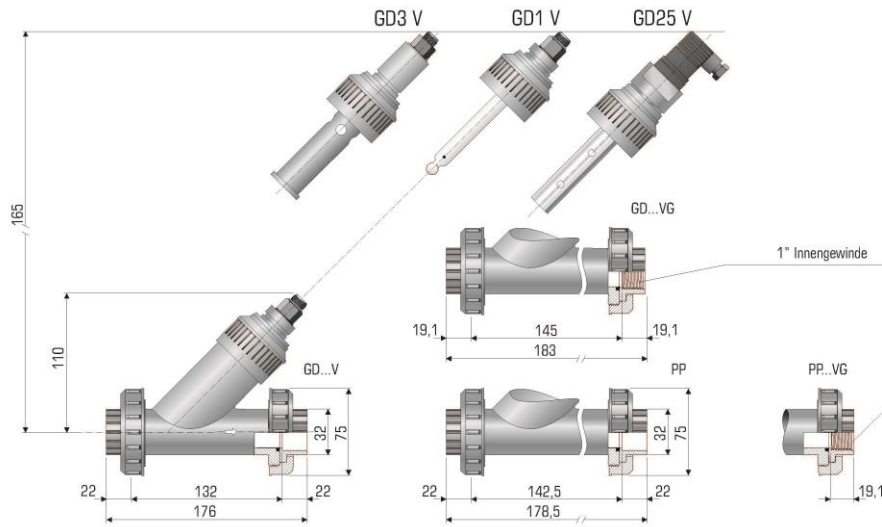
Konstruktiver Aufbau / *Mechanical construction*

Werkstoff /
Material PVC, PP

Einbau/
Installation GD 3 V: Muffen (DN 25), zum Einkleben, GD 3 VG (PP): Muffen
(DN 25) mit 1" Innengewinde /

*GD 3 V: Muffen (DN 25), for gluing GD 3 VG (PP): Muffen (DN 25)
with 1" female thread*

6.3.3 Mechanical drawing



Assembly GD 3 V (G) (PP)

6.3.4 Order information

Artikel Nr. / Article No.	Typ / Type	Beschreibung / Description
36604280K	GD 3 V	Adhesive coupling (DN 25), PVC
36604281K	GD 3 VG	Pipe coupling (DN 25) with 1" internal thread, PVC
36604285K	GD 3 VG PP	Pipe coupling (DN 25) with 1" internal thread, PP

6.4 Assembly Ne GSH für Gas-Sensors

6.4.1 Description



Assembly Ne GSH

Gas sensor holder for one gas sensor

- Functions displays via LED's
- Variable in cable length due to M12-plug
- Easy installation of the sensor by thread adapter nut

6.4.2 Technical data

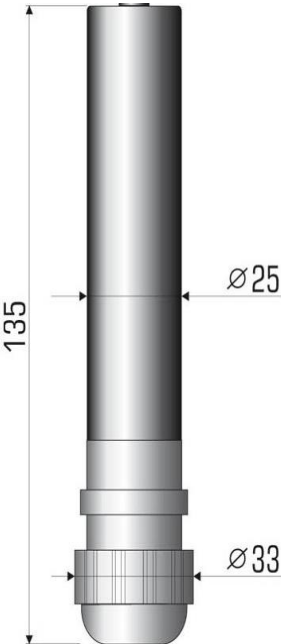
Prozessbedingungen / *Ambient conditions*

Temperatur / Max. 40 °C / 104 °F
Pressure

Konstruktiver Aufbau / *Mechanical construction*

Werkstoff / PVC
Material

6.4.3 Mechanical drawing



Assembly Ne GSH

6.4.4 Order information

Artikel Nr. / Article No.	Typ / Type	Beschreibung / Description
29113001K	Ne GSH	Gas sensor holder, M12-plug



Note!

Matching connection cables can be found in the Accessories chapter.

6.5 Photometer Radon DIS-pH

6.5.1 Description



Photometer Radon DIS-pH

Precise Water Analysis in compact design

The Radon photometer is used for measuring of Chlorine, Chlorine dioxide, Ozone and pH. Accurate and consistent results are obtained quickly. Delivery contents is everything needed to measure Chlorine, Chlorine dioxide and Ozone. The delivery content contains everything needed for measuring Chlorine, Chlorine dioxide and Ozone. For measurement of pH you need the reagent phenolred.

Benefits

- Comfortable by method memory
- Automatic switch-off
- Waterproof accord to IP68

6.5.2 Technical data

Messparameter / Measuring parameter

Freies Chlor / <i>Free chlorine</i>	0,01.. 6,00 mg/l
Chlordioxid / <i>Chlorine dioxide</i>	0,01.. 6,00 mg/l
Ozon / <i>Ozone</i>	0,01.. 4,00 mg/l
pH-Wert / <i>pH-value</i>	6,5.. 8,4 pH

Eingangskenngröße / Input characteristic

Genauigkeit / <i>Accuracy</i>	3 % FS (bei 20 °... 25 °C) / 3 % FS (at 20 °... 25 °C / 68 °..77 °F)
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Ausgangskenngrößen / Process conditions

Speichermedium / <i>Data storage medium</i>	Interner Ringspeicher für 16 Datensätze / <i>Internal ring buffer for 16 data sets</i>
--	---

Hilfsenergie/ Power supply

Stromversorgung / <i>Electric power supply</i>	4 Microbatterien (AAA/LR 03), Kapazität 17 Stunden oder 5000 Messungen / <i>4 micro batteries (AAA/LR 03), capacity 17 hours or 5000 measurements</i>
Auto - OFF	Automatische Geräteabschaltung, 10 Min. nach letzter Tastenbetätigung / <i>Automatic device switch-off, 10 min. after last button is pressed</i>

Prozessbedingungen / Process conditions

Temperatur/ <i>Temperature</i>	-5.. 40 °C / 23..104 °F
Rel. Feuchte / <i>Relative humidity</i>	30.. 90 % (nicht kondensierend) / <i>30-90 % (non-condensing)</i>

Lieferumfang / Scope of supply

Gerät im Kunststoffkoffer, 4 Microbatterien (AAA), 3 Rundküvetten (Glas) mit Deckel, 1 Rührstab & 1 Bürste, Gewährleistungserklärung, Betriebsanleitung /

Instrument in plastic case, 4 micro batteries (AAA), 3 round cells (glass) with caps, 1 mixer & 1 brush, guarantee declaration, operating instructions

Zertifikate und Zulassungen / Certificates and approvals

CE-Symbol

CE-Zeichen Konformitätserklärung: Das Produkt entspricht den Anforderungen der harmonisierten europäischen Normen. Es entspricht damit den gesetzlichen Anforderungen der EG-Richtlinien. Der Hersteller bestätigt die erfolgreiche Prüfung des Produktes durch Anbringen des CE-Zeichens. /

CE-Symbol Declaration of conformity: The product meets the requirements of the harmonized European standards. It thus complies with the legal requirements of the EC directives. The manufacturer confirms successful testing of the product by affixing the CE-symbol.

EMV

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

Konstruktiver Aufbau / Constructive structure

Maße Handgerät /
Dimension

155 x 75 x 35 mm

Gewicht /
Weight

Ca. 260 g (mit Batterien) /
Approx. 260 g (with batteries)

6.5.3 Order information

Artikel Nr. / Article No.	Typ / Type	Beschreibung / Description
190201K	Radon DIS-pH	Photometer Chlorine, Chlorine Dioxide, Ozone and pH value

6.6 Cable 5SCR-M12-AE-X

6.6.1 Description



Cable 5SCR-M12-AE-X

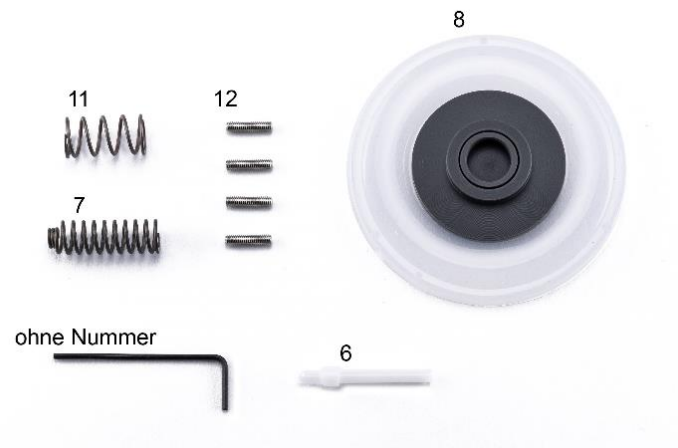
Screened cable for connecting DIS sensors with M12-plug, available in 5 or 10 m length.

6.6.3 Order information

Artikel Nr. / Article No.	Typ / Type	Beschreibung / Description
44136406K	5SCR-M12-AE-1,0	Connection cable for double Gold or double Platinum sensors, 1 m
44136411K	5SCR-M12-AE-5	Connection cable for double Gold or double Platinum sensors, 5 m
44136412K	5SCR-M12-AE-10	Connection cable for double Gold or double Platinum sensors, 10 m
44136413K	5SCR-M12-AE-50	Connection cable for double Gold or double Platinum sensors, 50 m

6.7 Spare parts packages StabiFlow®

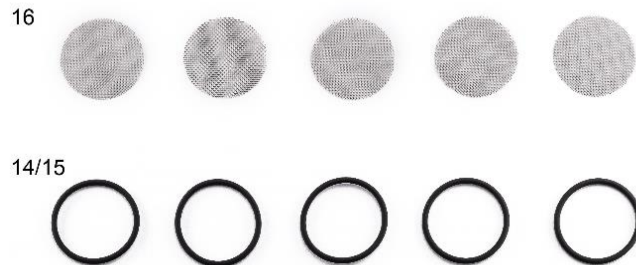
6.7.1 Description



Argon® spare parts package 1

consisting of

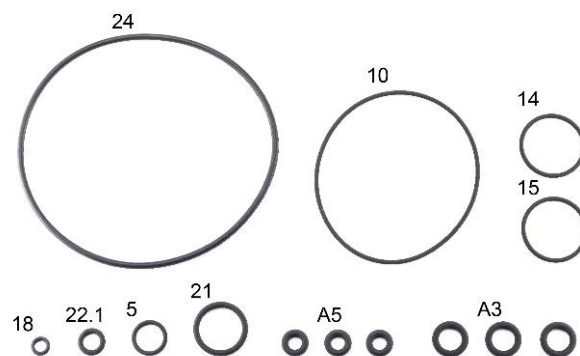
- 1 x No. 08: Membrane
- 1 x No. 07: Spring pressure side
- 1 x No. 11: Spring chamber side
- 1 x No. 06: Valve pin
- 4 x No. 12: Setscrew M3x12
- 1 x 1,5 mm hex key



Argon® spare parts package 2

consisting of

- 5 x No. 16 stainless steel 1.4401, 500 µm filter
- 5 x No. 14/15 O-ring FKM 26 x 2



Argon® spare parts package 3

consisting of

- 1 x No. 05: O-ring FKM 12 x 2
- 1 x No. 10: O-ring FKM 73 x 2
- 2 x No. 14: O-ring FKM 26 x 2
- 1 x No. 18: O-ring FKM 5 x 1,8
- 1 x No. 21: O-ring FKM 19 x 2,65
- 1 x No. 22: O-ring FKM 7,6 x 2,4
- 1 x No. 24: O-ring FKM 108 x 3
- 3 x No. A3: O-ring FKM 10 x 3
- 3 x No. A5: O-ring FKM 6 x 3

Regular care and maintenance will guarantee trouble-free operation and a long service life of the instruments.

**Argon® spare parts package 4**

consisting of

- 1 x No. 13: Screw socket
- 2 x No. 14: O-ring 26 x 2
- 1 x No. 18: O-ring 5 x 1,8
- 1 x No. 17: Filter support
- 1 x No. 19: Ball

**Argon® spare parts package 5**

consisting of

- 1 x Nr. 20: Inset
- 1 x Nr. 21: O-ring 19 x 2,65 FKM
- 1 x Nr. 22.1: O-ring 7,6 x 2,4 FKM
- 1 x Nr. 23: Float

6.7.2 Order information

Artikel Nr. / Article No.	Beschreibung / Description
39500006K	Argon® spare parts package 1
39500007K	Argon® spare parts package 2
39500008K	Argon® spare parts package 3
39500011K	Argon® spare parts package 4
39500013K	Argon® spare parts package 5

6.8 Test Pflug DIS

6.8.1 Description



Test plug DIS

With the test plug you can check the function and connection of our disinfection measurement (Krypton® DIS and Krypton® Multi).

6.8.2 Order information

Artikel Nr. / Article No.	Beschreibung / Description
19500002K	Test Plug DIS

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Kuntze Instruments GmbH

Robert-Bosch-Str. 7a
40688 Meerbusch
Germany

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