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disinfectantes

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Things to know tants

Dr. A. Kuntze measurement

The disinfectants measurement by Dr. A. Kuntze is a potentiostatic measurement with gold measuring and counter electrodes and reference, that measures specific disinfectants selectively. 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. The measuring and control instrument measures the potential between measuring and reference electrode and readjust the potential. The resulting current is a direct measure for the concentration of the disinfectant.



For Total Chlorine we use membrane sensors.

Influence of the flow rate

All molecules of the measured disinfectant that hit the electrode surface contribute to the measured signal. Therefore the signal strength does not only depend on the concentration but also on the flow rate: The higher the flow rate, the more molecules can hit the electrode.

This influence is most noticeable below 15 l/h. In particular, an interruption of the water flow will immediately cause signal loss. Please make sure that the sensor is continuously supplied with water, and that a constant flow rate is maintained.

Above 20I/h the influence of flow rate is less pronounced. A change from 50I/h to 40I/h for example reduces a measured value of 0,3mg/l to 0,28mg/l. The switch point of the flow sensor in our GDM flow cell is at 30I/h. This makes sure that you always work in a flow range where flow changes of 10I/h hardly make any difference.



disinfrings to know

Influence of the conductivity

The potentiostatic disinfectant measurement is an electrochemical measurement, it requires a minimum conductivity to ensure a closed electrical circuit. In deionized water a complete breakdown of the measured signal is possible, discernible as extreme fluctuations of the measured values. However above approx. 150microS/cm the conductivity influence has vanished.

Influence of the temperature

With increasing temperature, the signal gets stronger. However, the temperature influence is moderate. During test measurements with concentrations of 0.3mg/l, a sensor with a signal output of 25mV/0,1mg showed a temperature dependency of 0.004mg/l per degree Celsius. For most applications, such temperature influence is irrelevant. Anyway in all our measuring systems provide automatic temperature compensation.

Influence of the pH-value on the measurement of...

... free Chlorine

The expression "free Chlorine" represents Chlorine dissolved in water, and that covers three different Chlorine compounds that form depending on pH: Chlorine as Cl2 gas can only be found in acidic solutions. With increasing pH Chlorine reacts with water to form Hypochloric acid - HOCI. At pH 2 and higher almost all Cl2 has reacted to HOCI.



At approx. pH 6, neutralisation starts, and the Hypochloric acid is transformed into Hypochlorite ion - CIO-. At pH 9 and higher almost all Hypochloric acid has turned into Hypochlorite salt. Our Chlorine measurement measures only hypochloric acid.

The influence is strongest between pH 7 and 8. In this pH range, even small pH changes will strongly change the signal strength. To avoid such deviations, pH must either be kept constant, or measured simultaneously and the measurement used for compensation. If pH is kept constant, the influence is compensated during calibration. It shows only in a slope higher or lower than the ideal value. If not, the Chlorine instrument must offer pH measurement as well.

However, compensation is only possible as long as there is still a noticeable signal. So, even with compensation, the pH range is limited. Above pH 8, only higher concentrations can be detected.



Things to know tants

Influence of the pH-value on the measurement of...

...Total Chlorine

Total Chlorine is the sum of free and organically bound Chlorine. Apart from Chlorine, hypochloric acid and hypochlorite, it covers various organic Chlorine compounds that might result from the reaction of Chlorine with organic pollutants.

The total Chlorine measurement is not as pH-sensitive as the free Chlorine measurement and can be used over a broad pH range (pH 4..12). The measurement includes a chemical oxidation of lodide in a defined environment to ensure simultaneous detection of all Chlorine-containing substances. At the electrodes, the lodine produced in the oxidation is reduced.

... of Chlorine Dioxide, Ozone, Peroxide

In the range pH 6..9 the influence of pH changes on the measurement of Chlorine dioxide, Ozone, and Hydrogen peroxide, is negligible.

Do you want to measure Free Chlorine by unsteady pH-values

Select our Krypton K Multi with integrated automated sensor cleaning and take advantage of the automatic pH compensation, the pH controller priority function, and the log book that shows the calibration results.



Measurement of Free Chlorine, pH value, Temperature, and optional ORP
Automatic pH compensation
Integrated automatic cleaning www.automatische-sondenreinigung.de
2 separate PI-controllers
Priority pH controller (adjustable)
Serial interface RS 485
3 digital inputs
4 x 0/4 ...20mA



disin Things to know

Measuring point diagram

for a complete measuring point you need at least

- + one measuring and control instrument
- + one sensor
- + one connection cable
- + one assembly
- + optionally an ASR

For measuring disinfectants we recommend our complete systems Krypton K or Krypton K Multi, which include all necessary components of a measuring point!



You can also compose your measuring point individually!

For measurements of disinfectants with the double gold or double platinum sensor use the flow assembly GD3V(G) with defined incident flow or Krypton System.



D-40668 Meerbusch Phone: +49 2150 7066-0, Fax: -60 www.kuntze.com

Krypton K Multi - Free Chlorine, pH, Temperature, and optionally ORP

- Low maintenance by automatic sensor cleaning ASR (www.automatische-sondenreinigung.de)
- Particulary suitable at unsteady pH-values through pH compensation
- Higher safety by integrated flow monitoring



applications



description

Ready to use and tested en bloc measuring system for automatic measuring and controlling of free Chlorine, pH-value, and temperature. An ORP measurement can be added - as an option. Chlorine concentration and pH-value can be controlled by separate PI-controllers.

particular characteristics

- 2 separate PI controllers for Chlorine and pH
- Priority pH controller
- 2 x 2 limit values with delay
- Dosage check for Chlorine and pH
- Semi-automatic two-point-calibration for pH
- Automatic pH compensation of the Chlorine measurement
- Automatic or manual Temperature compensation
- Background illuminated 4 line LC-Display
- Plain text menu guidance
- pass word function
- real time clock
- Log book function for the last 20 calibration data
- Broad range power supply 85 .. 265 V AC or DC
- Serial interface RS 485
- OPTION: 4 x 0/4 .. 20 mA outputs (scaleable, galvanically isolated)
- OPTION: additional ORP measurement

DR. A. KUNTZE | GUTES WASSER MIT SYSTEM

technical data

measuring parameter free Chlorine	0 4 mg/l	
pH-value	0 14 pH	
Temperature	0 50 °C	
ORP	-1500 +1500 mV	
input characteristics		
conditions	max. pressure	max. 6 bar (at 20°C), constant
	flow	~30200 l/h, constant
	ambient temperature	0 50°C
	pH-range	6 8 pH
	min. conductivity	>150 µS/cm
output characteristics output signal	optional - 4 x 0/4 20 mA (scaleal	ble, galvanically isolated)
load	max. 500 Ohm	
registration range	free adjustable within the measuring	ng ranges
serial interface	RS 485	
	baud rate	9600
	data format	8 bit
power supply line voltage	broad range power supply 85 26	35 V AC or DC
power consumption	10 VA	
ambient conditions ambient temperature	operation 0 +50 °C, storage -20 30°C	+ 65°C exception sensors: 0
relative humidity	max. 90% at 40°C non-condensed	1
protection class	wall mounted housing	IP 65
controller control response	On/off controller (adjustable hyste (pulse-pause, pulse-frequency, 3- (for free Chlorine) or continous con	resis) P/PI/PID-controller -point controller/ servo motor control ntroller output)
relays	3 x potential-free NO-contact, max dosing pumps / Servo-motor 1 x p V, 6A, 550 VA for alarm	c. 250 V, 6 A, 550 VA for activation potential-free CO-contact, max. 250
onset delay	0 2000 sec	
digital input	1) Low water 2) Level switch 3) Co	ontroller stop via external contact
certificates and approvals CE-symbol	Declaration of conformity: The pro harmonized European standards. requirements of the EC directives.	duct meets the requirements of the It thus complies with the legal
mechanical construction material	board: PVC, assembly: PMMA, co sensors: glass	ocks: PP, PVC, instrument: ABS,
dimensions	700 x 395 mm	
sampling point	Stop Cock R 1/4"	
water coupling	inlet/outlet: 1/2" (with stop cock) to	ube connection DN 6/8

dimensional drawing



order information

name	description	article number
Krypton K Multi	Measuring system for Free Chlorine, pH-value and temperature	70005240K
GDM Redox/ORP add on	1 GDM chamber equipped with ORP sensor and cable	57001520K

order information accessories

	description	article number
Pt-55-W	Flow sensor with reed contact and integrated Pt100	24137030K
Set CHECKIT Comparator Cl2	Total and Free Chlorine 0 4 mg/l	79500003K
Set CHECKIT Comparator CIO2	Chlorine Dioxide 0,01 0,2 mg/l	79500004K
Set CHECKIT Comparator O3	Ozone 0 1 mg/l	79500005K
EC-CIRC 15-700	Bypass/ circulation pump with brass housing	79500001K
Modul 4x 0-20 mA	Daugtherboard 4 analog outputs (K400)	41800701D

Krypton K - Free Chlorine, Chlorine Dioxide, Ozone, or Peroxide

- Low maintenance by automatic sensor cleaning
- Pressure-proof up to 6 bar at 20°C
- Higher safety by integrated flow monitoring



applications



description

Ready to use and tested en bloc measuring board for measuring and control of Free Chlorine, Chlorine Dioxide, Ozone or Hydrogen Peroxide

particular characteristics

- Inclusive instrument, single rod sensor, PMMA flow assembly (with sampling point, stop cocks for inlet and outlet, flow monitoring and temperature sensor), automatic sensor cleaning ASR and all necessary cables
- Plain text menu guidance
- Password function
- 2 limit values with delay, assigned to alarm relay
- 2 separate PI-controllers
- Dosage check
- Background illuminated two-line LC-Display for measured value and temperature
- Serial interface RS 485
- Scaleable, glavanically isolated 0/4 .. 20 mA output
- Display of relay status and error messages
- Invertible alarm output, permanent or pulse contact

DR. A. KUNTZE | GUTES WASSER MIT SYSTEM

technical data

measuring parameter	free Chlorine, Chlorine Dioxide, O	zone Hydrogen Perovide
measuring range	0.00 4.00 mg/l Cl2	free Chlorine
	0.00 4.00 mg/l CIO2	Chlorine Dioxide
	0.00 4.00 mg/l O3	Ozone
	0.00 30.00 mg/l H2O2	Hydrogen Peroxide
input characteristics	-30 +140°C	
flow monitoring	Flow monitor with integrated Pt 10	0
conditions	max. pressure	6 bar (at 20°), constant
	flow	~ 30.,200 l/h. constant
	ambient temperature	050 °C
	pH-range	pH 68. constant
	min. conductivity	>150 uS/cm
	nini oonaadamiy	
output characteristics	0/4 20 mA (scaleable, galvanica	llv isolated)
load	max. 500 Ohm	,,
registration range	adjustable within measuring range	
serial interface	RS 485	
	baud rate	9600
	data format	8 bit
power supply line voltage	24 / 117 / 230 VAC, +6 / -10 %, 40	0 60 Hz
power consumption	10 VA	
ambient conditions ambient temperature	operation 0 +50°C, storage -20	+65°C exception sensors 0 30°C
relative humidity	max. 90% rH at 40°C (non-conder	nsing)
protection class	wall mounted housing	IP 65
controller control response	on/off controller (adjustable hyster pulse-frequency or continuous out	resis) P/PI controller (pulse-pause, tput)
relays	2 relays each with potential-free NO contact, max. 250 V, 6 A, 550 VA 1 alarmrelay each with potential-free NO/CO contact, max. 250 V, 6 A, 550 VA	
onset delay	o 200 sec until controller active	
digital input	controller stop via external contac	t
certificates and approvals CE-symbol	Declaration of conformity: The pro harmonized European standards. requirements of the EC directives.	duct meets the requirements of the It thus complies with the legal
mechanical construction material	board: PVC, assembly: PMMA, co sensors: glass	ocks: PP/PVC instruments: ABS,
dimensions	700 x 395 mm	
sampling point	1/4" female threat with stop cock	
water coupling	inlet/ outlet: 1/2" female threat (with 6/8	th stop cock) tube connection DN

order information

name	description	article number
Krypton K CL2	measuring system (230 V), Free Chlorine	70005200K
Krypton K CLO2	measuring system (230 V); Chlorine Dioxide	70005250K
Krypton K O3	measuring system (230 V), Ozone	70005400K
Krypton K H2O2	measuring system (230 V), Hydrogen Peroxide	70005450K

order information accessories

name	description	article number
AuAu-600-00-2-1-PG	sensor for Free Chlorine, Chlorine Dioxide and Ozone	24135140K
Pt-55-W	Flow sensor with reed contact and integrated Pt100	24137030K
Set CHECKIT Comparator Cl2	Total and Free Chlorine 0 4 mg/l	79500003K
Set CHECKIT Comparator CIO2	Chlorine Dioxide 0,01 0,2 mg/l	79500004K
Set CHECKIT Comparator O3	Ozone 0 1 mg/l	79500005K
EC-CIRC 15-700	Bypass/ circulation pump with brass housing	79500001K
PKV-30-DPS	Converter for PROFIBUS-DP for max. 32 Kuntze instruments	66416000K
S-341 data logger	bus data logger based on RS 485 with Kuntze protocol	42001000K
PtPt-600-00-2-1-PG	sensor for measuring hydrogen peroxide	24135260K
POOLTESTER	colorimetric rapid test	79500002K

Krypton K SCL - Total Chlorine

- Higher safety by integrated flow monitoring
- Suitable for high pH values up to pH 12
- Reduced pH influence



applications



description

Ready for use system to measure and control total chlorine (= free chlorine and organically bound chlorine)

particular characteristics

- Inclusive instrument, membrane sensor, PMMA flow assembly (with sampling point, stop cocks for inlet and outlet, flow monitoring and temperature sensor) and all necessary cables
- Plain text menu guidance
- Password function
- 2 limit values with delay, assigned to alarm relay
- 2 separate PI controllers
- Dosage check
- Background illuminated LC-Display for measured value and temperature
- Serial interface RS 485
- Scaleable, galvanically isolated 0/4 .. 20 mA output
- Display of relay status and error messages



technical data

measuring parameter total Chlorine	0 10 mg/l TCl2	
input characteristics		
temperature measuring range	-30 +140°C	
flow monitoring	Flow monitor with integrated Pt 10	0
conditions	max. pressure	0.5 bar
	flow	~ 30 200 l/h
	ambient temperature	1 45°C
	pH-range	4 12 pH
output characteristics		
output signal	0/4 20 mA (scaleable, galvanica	lly isolated)
load	max. 500 Ohm	
registration range	free scaleable within the measuring	ig range
voltage output	+/- 6 VDC	
serial interface	RS 485	
	baud rate	9600
	data format	8 bit
power supply		
line voltage	24/ 117/ 230 VAC, +6/ -10 %, 40 60 Hz	
power consumption	10 VA	
ambient conditions		
ambient temperature	operation 1 45°C storage -20	+65°C Storage sensor: 10 30°C
relative humidity	max. 90% rH at 40°C (non-conder	nsing)
protection class	wall mounted housing	IP 65
controller		
control response	on/off controller (adjustable hyster pulse-frequency or continuous out	resis) P/PI controller (pulse-pause, tput)
relays	3 relays each with potential-free N	IO contact, max. 250 V, 6 A, 550 VA
onset delay	0 200 sec till controller active	
certificates and approvals		
CE-symbol	Declaration of conformity: The pro- harmonized European standards. requirements of the EC directives.	duct meets the requirements of the It thus complies with the legal
mechanical construction material	board: PVC, assembly: PMMA, co sensor: PVC, stainless steel	ocks: PP/PVC instrument: ABS,
dimensions	700 x 395 mm	
sampling point	1/4" female thread with stop cock	
water coupling	inlet/outlet: 1/2" female thread with DN6/8	h stop cocks and tube connectors

order information

name	description	article number
Krypton K SCL2	measuring system (230 V), Total Chlorine	70005300K

order information accessories

name	description	article number
Set CHECKIT Comparator Cl2	Total and Free Chlorine 0 4 mg/l	79500003K
Set CHECKIT Comparator CIO2	Chlorine Dioxide 0,01 0,2 mg/l	79500004K
Set CHECKIT Comparator O3	Ozone 0 1 mg/l	79500005K
PKV-30-DPS	Converter for PROFIBUS-DP for max. 32 Kuntze instruments	66416000K
S-341 data logger	bus data logger based on RS 485 with Kuntze protocol	42001000K

Measuring and control instruments

K 100 (W) - Free Chlorine, Chlorine Dioxide, Ozone, or Peroxide

- Easy and safe operation by plain text menu guidance
- Safety by password function



description

The series K 100 is a high sophisticated single channel measurement and control instrument for disinfectants like Free Chlorine, Chlorine Dioxide, Ozone and Hydrogen Peroxide.

particular characteristics

- 2 limit values with delay, assigned to alarm relay
- 2 separate PI-controllers
- Dosage check
- Background illuminated two-line LC-Display for measured value and temperature
- Serial interface RS 485 optional
- Scaleable, glavanically isolated 0/4 .. 20 mA output
- Display of relay status and error messages
- Invertible alarm output, permanent or pulse contact

Measuring and control instruments

technical data

measuring parameter	free Chlorine, Chlorine Diovide, O	zone Hudrogen Dorovida
		free Chlorine, Chlorine Diovide
measuring range	0.0 4.00 mg/i	Ozone
	0.0 20.00 mg/l	free Chlorine
	0.0 30 mg/l	Hydrogen Peroxide
input characteristics		
temperature measuring range	-30 +140 °C	
output characteristics		
output signal	0/4 20 mA (scaleable, galvanica	lly isolated)
load	max. 500 Ohm	
registration range	free scaleable within the measurin	g range
serial interface	RS 485 (optional)	
	Baud rate	9600
	data format	8 bit
power supply	04/447/0003/400 -0/40%/40	00.11-
line voltage	24 / 11 // 230 VAC, +6/-10%, 40	60 Hz
power consumption	10 VA	
ambient conditions	Operation 0 +50 °C storage 20	+65°C
andient temperature	Operation 0 +50 °C, storage -20	
relative numidity	max. 90% rH at 40°C (non-conder	ISING)
protection class	panel mounted nousing	IP 54 (front), IP 30 (nousing)
	wall mounted housing	IP 05
controller	er /off eesterling /odiustehis hustor	
control response	pulse-frequency or continuous out	put)
relays	2 relays, each with a potential-free VA 1 alarmrelay with potential-free 550 VA	NO contact, max. 250V, 6 A, 550 CO/NO contact, max. 250V, 6A,
onset delay	0200 sec till controller active	
digital input	Controller stop via external contac	t
cortificator and approvale		
CE-symbol	Declaration of conformity: The pro harmonized European standards. requirements of the EC directives.	duct meets the requirements of the It thus complies with the legal
mechanical construction - pane material	I mounted housing Noryl	
dimensions	90x90x116 mm	
installation dimensions	92x92x140 mm	
weight	0.75 kg	
connection	push-srew terminals	
mechanical construction - wall material	mounted housing ABS	
dimensions	165x160x85 mm	
weight	0.95 kg	
connection	Spring-loaded terminals	
connection mechanical construction - wall material dimensions weight connection	push-srew terminals mounted housing ABS 165x160x85 mm 0.95 kg Spring-loaded terminals	

dimensional drawing



wall mounted housing



order information

name	description	article number
K 100 CL2	free chlorine, panel mounted housing, 230 VAC	100200K
K 100 W CL2	free chlorine, wall mounted housing, 230 VAC	105200K
K 100 CLO2	chlorine dioxide, panel mounted housing, 230 VAC	100250K
K 100 W CLO2	chlorine dioxide, wall mounted housing, 230 VAC	105250K
K 100 O3	ozone, panel mounted housing, 230 VAC	100400K
K 100 W O3	ozone, wall mounted housing, 230 VAC	105400K
K 100 H2O2	Hydrogen Peroxide, panel mounted housing, 230 VAC	100450K
K 100 W H2O2	Hydrogen Peroxide, wall mounted housing, 230 VAC	105450K

order information accessories

name	description	article number
ASR modul K 100 W	ASR - automatic sensor cleaning - modul for measuring and control instruments K 100 W K 100 W CL2, ClO2, O3 und H2O2	50105200K
RS 485 Modul K 100 W	Serial interface module for series K 100	50105003K

Please keep in mind the conditions for our measurement like minimum flow with defined inflow, pressure, temperature and conductivity.



Measuring and control instruments

ASR - automatic sensor cleaning

- Add-on for Kuntze disinfectant measurement
- No refill of chemical or physical agents
- Strongly reduced calibration demand
- Without manual cleaning
- www.automatische-sondenreinigung.de



description

The cleaning is carried out electrochemically by electrolysis of water: H2O --> O2 + H2 The electrochemical cleaning acts threefold: the generated gases hydrogen and oxygen blast away even persistent coatings. Oxygen oxydises organic compounds, and hydrogen reduces rust and manganese oxide and likewise destroys organic coatings. The produced gas volumes are small and unused gas molecules recombine automatically to the water they stem from. The cleaning is activated in the menu of the measuring and control instrument. The starting time of cleaning can be defined by the user. The cleaning cycle lasts approx. 20 seconds. The measuring value is locked for five minutes, in the display, in the output signal, and also for the controller, to give the electrode time to polarize. The cleaning can be set to 0/1/2 times per day. ASR aims at keeping the sensor clean from the beginning. It was not meant to clean already coated sensors, since with those sensors the signals will be higher after cleaning, making a recalibration necessary.

order information



The ASR can only be used in combination with our sensors AuAu-600-O-2-1-PG, PtPt-600-O-2-1-PG and Au-505-3O-PG and measuring and control instruments for Free Chlorine, Chlorine Dioxide, Ozone, Peroxide and conductivity.



ASR - Frequently asked question

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 raise. ASR should be used from the start, keep the electrodes clean, 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 day is usually adequate. We recommend to raise the number of cleanings, if the measured values decrease visible within a few days.

Do I need to recalibrate after cleaning?

No. The cleaning is supposed to maintane 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 neccessary. Only calibrate if the electrode was not clean before cleaning and the value is still much higher immediately before the next cleaning. Generally never calibrate directly after cleaning, so that the calibration does not correspondent with the abated polarization phase. That's the reason why we lock the calibration menu for five minutes. During this time the status meassage "cleaning in progress" is shown in the display.

I can not 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 meassage "cleaning in progress" is shown in the display, and the calibration menue is locked.

Can I use ASR under all circumstances?

The automatic sensor cleaning should not be used in sea water or other saline media and also not in ultra pure water or other deionized media.

Is ASR also suitable for sea water?

In sea water, brine or other saline media the ASR should not be used. At high salt concentrations chlorine is build produced oxygen during the cleaning. And this does not only interferen with the measurement but also corrodes the gold electrodes.

Is ASR available for pH sensors?

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

Gensorsfectants

AuAu-600-00-2-1-PG - Cl2/ ClO2/ O3 sensor

- Low maintenance by gel filling
- Automatic cleaning possible with ASR
- Virtually flow-independant above 30 l/h



AuAu-600-00-2-1-PG AuAu-600-00-2-1-PG

description

AuAu-600-OO-2-1-PG is a single rod sensor with integrated counter electrode. This potentiostatic double gold sensor is in combination with our instruments suitable for measuring free Chlorine, Chlorine Dioxide and Ozone.

technical data

ambient conditions	
max. pressure	16 bar (at 20°C)
min. condutctivity	>150 μ S/cm with ASR > 200 μ S/cm
temperature	-5 +70 °C
machanical construction	
junction	Ceramic
shaft material	Glass
electrode material	Gold
reference system	Ag/AgCl/Tepox gel
mechanical connection	S8 screw connection (PG 13,5)
electrical connection	M12 screw connection

order information

applications

name	description	article number
AuAu-600-OO-2-1-PG	sensor for Free Chlorine, Chlorine Dioxide and Ozone	24135140K

Waste Water Treatment

Cooling And Boiler Feed

Disinfection

Water

Drinking Water / Beverages

order information accessories

name	description	article number
GD 3 V	adhesive coupling (DN 25), PVC	36604280K
GD 3 VG	pipe coupling (DN 25) with 1" internal thread, PVC	36604281K
GD 3 VG PP	pipe coupling (DN 25) with 1" internal thread, PP	36604285K
5SCR-M12-AE-5	connection cable for double gold or double platinum sensors, 5m	44136411K
5SCR-M12-AE-10	connection cable for double gold or double platinum sensors, 10 \mbox{m}	44136412K

Please keep in mind the conditions for our measurement like minimum flow with defined inflow, pressure, temperature and conductivity.

disinfectsensors

Waste Water Treatment

Disinfection

PtPt-600-OO-2-1-PG - H2O2 sensor

- Low maintenance by gel filling
- Automatic cleaning possible with ASR
- Virtually flow-independant above 30 l/h



PtPt-600-OO-2-1-PG PtPt-600-OO-2-1-PG

description

PtPt-600-OO-2-1-PG is a single rod sensor with integrated counter electrode. This potentiostatic double platinium sensor is in combination with our instruments suitable for measuring hydrogen peroxide.

technical data

ambient conditions	40 has (d. 2020)
max. pressure	16 bar (at 20 C)
min. condutctivity	>150 µS/cm with ASR > 200µS/cm
temperature	-5 +70 °C
mechanical construction	
junction	Ceramic
shaft material	Glass
electrode material	Platinum
reference system	Ag/AgCl/Tepox gel
mechanical connection	S8 screw connection (PG 13,5)
electrical connection	M12 screw connection

order information

applications

name	description	article number
PtPt-600-00-2-1-PG	sensor for measuring hydrogen peroxide	24135260K

order information accessories

name	description	article number
GD 3 V	adhesive coupling (DN 25), PVC	36604280K
GD 3 VG	pipe coupling (DN 25) with 1" internal thread, PVC	36604281K
GD 3 VG PP	pipe coupling (DN 25) with 1" internal thread, PP	36604285K
K 100 H2O2	Hydrogen Peroxide, panel mounted housing, 230 VAC	100450K
K 100 W H2O2	Hydrogen Peroxide, wall mounted housing, 230 VAC	105450K
5SCR-M12-AE-5	connection cable for double gold or double platinum sensors, 5m	44136411K
5SCR-M12-AE-10	connection cable for double gold or double platinum sensors, 10 \ensuremath{m}	44136412K

Please keep in mind the conditions for our measurement like minimum flow with defined inflow, pressure, temperature and conductivity.





Assemblies Ctants

GD 3 V(G) (PP)

- Defined incident flow
- Easy to dismantle



GD 3 VG

description

Flow assembly for installation of one sensor AuAu-600-OO-2-1-PG or PtPt-600-OO-2-1-PG with adhesive coupling or pipe coupling DN 25 with 1" female threat. Available in PVC and PP.

technical data

ambient conditions	
max. pressure	PVC: 16 bar (at 20°C) PP: 10 bar (at 20°C)
temperature	max. 40°C (PVC) max. 90°C (PP)
mechanical construction	
material	PVC, PP
dimensions	see dimension drawing
installation	GD 3 V: adhesive coupling GD 3 VG (PP): pipe coupling DN 25 with 1" female threat

order information

name	description	article number
GD 3 V	adhesive coupling (DN 25), PVC	36604280K
GD 3 VG	pipe coupling (DN 25) with 1" internal thread, PVC	36604281K
GD 3 VG PP	pipe coupling (DN 25) with 1" internal thread, PP	36604285K

order information accessories

name	description	article number
AuAu-600-00-2-1-PG	sensor for Free Chlorine, Chlorine Dioxide and Ozone	24135140K
PtPt-600-00-2-1-PG	sensor for measuring hydrogen peroxide	24135260K



disinfeasemblies

GD 3 V(G) (PP)

dimensional drawing



GD 3 V(G)

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cabels

5SCR-M12-AE-X

- Screened
- M12 plug
- Wire end ferrules



description

Screened cable for connecting the single rod sensors AuAu-600-O-2-1-PG and PtPt-600-O-2-1-PG, available in 5 or 10 m length.

technical data



order information

name	description	article number
5SCR-M12-AE-5	connection cable for double gold or double platinum sensors, 5m	44136411K
5SCR-M12-AE-10	connection cable for double gold or double platinum sensors, 10 m	44136412K



disinfeacessori

CHECKIT Comparator

- Fast
- Simple
- Low cost



Checkit

applications Drinking Water / Beverages



Cooling And Boiler Feed



description

The CHECKIT Comparator is a compact handy colorimeter unit which is suitable for both mobile and static analysis work. CHECKIT Comparator is a colorimetric rapid test for easy determination of Free Chlorine, Total Chlorine, Chlorine Dioxide or Ozone concentrations that can be used as an indication measurement for our amperometric measuring systems. Naturally, regarding resolution and accuracy, the rapid test does not come close to the Krypton systems, and it cannot replace a fotometric measurement. However, it provides a quick orientation and can therefore prove helpful during installation or routine comparison. The CHECKIT Comparator comes in a robust plastic casing with all necessary equipment.

technical data

measuring parameter	
free Chlorine	0.0 4.0 mg/l
total Chlorine	0.0 4.0 mg/l
Chlorine Dioxide	0.01 0.2 mg/l
Ozone	0 1 mg/l

order information

name	description	article number
Set CHECKIT Comparator Cl2	Total and Free Chlorine 0 4 mg/l	79500003K
Set CHECKIT Comparator CIO2	Chlorine Dioxide 0,01 0,2 mg/l	79500004K
Set CHECKIT Comparator O3	Ozone 0 1 mg/l	79500005K

Robert-Bosch-Str. 7a D-40668 Meerbusch Phone: +49 2150 7066-0, Fax: -60 www.kuntze.com



Accessories Ctants

Pooltester

- Fast
- Simple
- Low cost



POOLTESTER



description

POOLTESTER is a colorimetric rapid test for easy determination of Hydrogen peroxide concentrations that can be used as an indication measurement for our amperometric measuring systems. Naturally, regarding resolution and accuracy, the rapid test does not come close to the Krypton systems, and it cannot replace a fotometric measurement. However, it provides a quick orientation and can therefore prove helpful during installation or routine comparison. The POOLTESTER comes in a robust plastic casing with 20 tablets in a blister pack and a multi-language manual.

technical data

measuring parameter Hydrogen Peroxide	0 50 mg/l		

order information

name	description	article number
POOLTESTER	colorimetric rapid test	79500002K



disinfercessories

S-341 data logger

- free administration of 10 instruments with up to 8 parameter each
- data storing takes place every second



S-341 data logger

particular characteristics

- available in German, English or French menu guidance
- data storing in 24h files in text format
- storage media is standard SD-card (max. 1 GB, FAT 12/16)
- Graphical program vario view2 is available free of charge

description

The bus data logger S-341 on the base of the RS-485 with Kuntze protocol reads, shows, and stores measuring data of up to 10 Kuntze instruments with up to 8 parameters each.

technical data

power supply			
voltage supply	20253 VDC or 50253 VAC		
mechanical construction - panel mounted housing			
material	panel mounted housing (91x44x131)		

order information





Notes infectants



The Dr. A. Kuntze GmbH "Terms and Conditions" will be applicable.

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Robert-Bosch-Str. 7a D-40668 Meerbusch Phone: +49 2150 7066-0, Fax: -60 www.kuntze.com

disinfectantes

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Dr. A. Kuntze GmbH

Robert-Bosch-Str. 7a | D-40668 Meerbusch | Germany Fon +49 (0) 2150 70 66 -0 | Fax +49 (0) 2150 70 66 -60 info@kuntze.com | www.kuntze.com