



DR. A. KUNTZE
PRODUCT CATALOGUE 2011

Gas

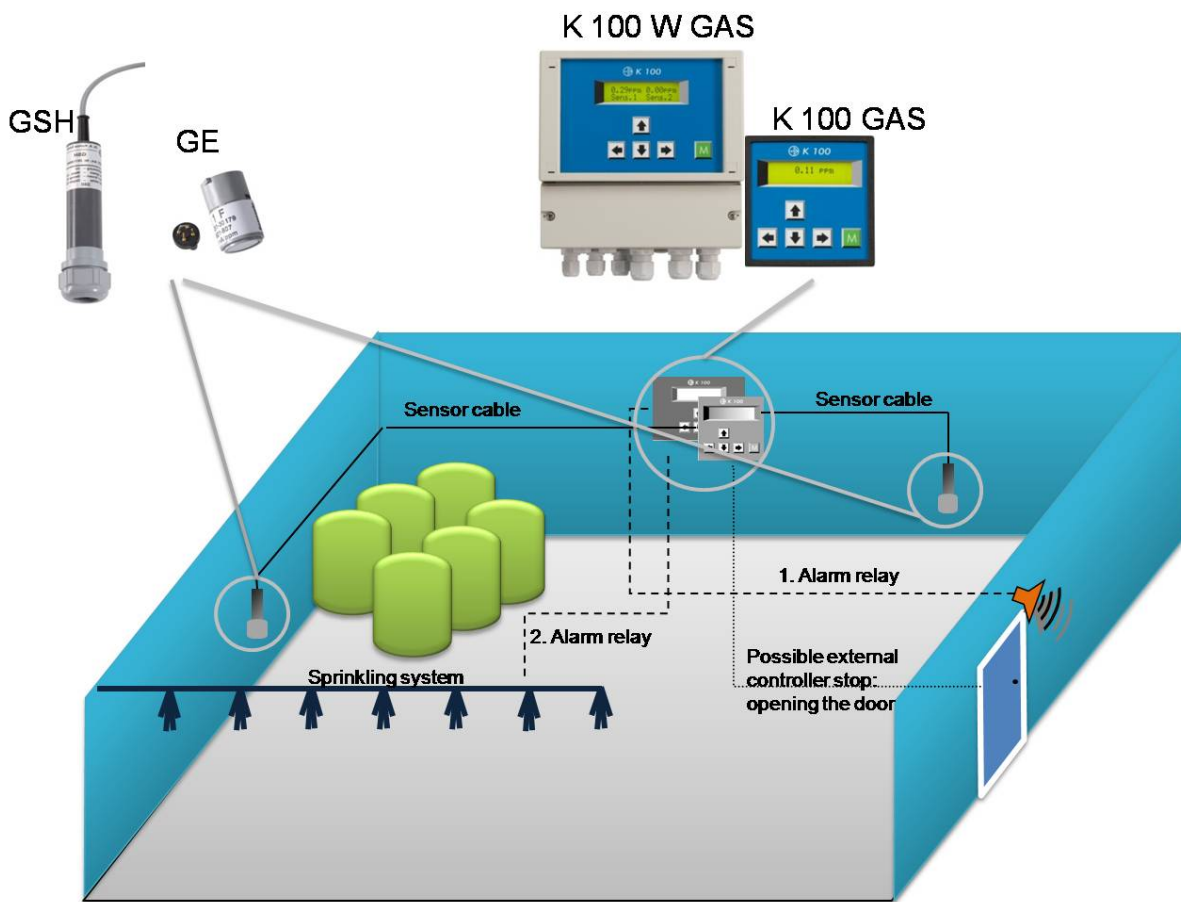
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Measuring point diagram

for a complete measuring point you need at least

- + one measuring and control instrument
- + one sensor
- + one gas sensor holder cable



For each sensor two limit values can be defined, which operate separate relays. The first is supposed to activate an acoustic signal: by overstepping the limit value the alarm is set off immediately. Manual acknowledgement will switch off the relay. The second limit is supposed to activate the sprinkling system - a delay can be adjusted so that the sprinkling system only starts if the limit value is exceeded for a certain time. This relay can be switched off by digital input: if you connect a door contact, the sprinkling system will be switched off as soon as the maintenance personnel opens the door. We will be delighted to help you! Give us a call: +49 2150-7066-11.






K 100 (W) GAS - Chlorine, Chlorine Dioxide, and Ozone

- Connection of one or two gas sensors
- Easy and safe operation by plain text menu guidance
- Safety by password function



applications

-  Lager-Abluftüberwachung
-  Ambient Air Monitoring
-  TLV Monitoring
-  Environmental Monitoring

description

The K 100 (W) GAS is a sophisticated instrument for continuous monitoring of gases in ambient air. The connection of one or two electrochemical sensors of the GE-700 series is possible.

particular characteristics

- Measuring ranges in the ppm-range depending on the used gas sensor
- Automatic sensor test, adjustable test cycle
- 3 potential-free contacts for limit value 1, limit value 2 and general alarm
- Zero current safe - the effective direction of the alarm relay is invertible
- Background illuminated two-line LC-Display
- Display of relay and error messages
- Scaleable, galvanically isolated 0/4 ..20 mA output

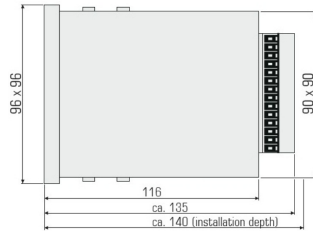


technical data

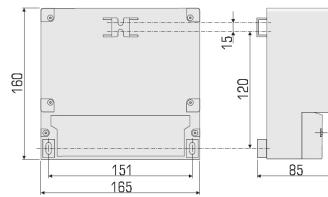
measuring parameter		
parameter	Chlorine Gas, Ozone Gas, Chlorine Dioxide Gas	
measuring range	0.00 .. 10.00 ppm	Chlorine Gas
	0.00 .. 1.00 ppm	Ozone Gas, Chlorine Dioxide Gas
	0.00 .. 20.00 ppm	Chlorine Gas
input characteristics		
accuracy	Depending on the sensor	
output characteristics		
output signal	0/4 .. 20 mA (measured value sensor 1 or sensor 2)	
load	max. 500 Ohm	
registration range	Free adjustable within the measuring range	
serial interface	RS 485 (optional)	
	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 0 .. +50 °C , storage -20 .. +65 °C	
relative humidity	max. 90% rH at 40°C (non-condensing)	
protection class	panel mounted housing	IP 54 (front), IP 30 (housing)
	wall mounted housing	IP 65
controller		
digital input	Stop via external contact	
certificates and approvals		
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.	
mechanical construction - panel mounted housing		
material	Noryl	
dimensions	90x90x116	
installation dimensions	92x92x140	
weight	0.75 kg	
connection	Push-screw terminals	
mechanical construction - wall mounted housing		
material	ABS	
dimensions	165x160x85	
weight	0.95 kg	
connection	Spring-loaded terminals	

dimensional drawing

panel mounted housing



wall mounted housing



order information

name	description	article number
K 100 GAS	Chlorine / Chlorine Dioxide/ Ozone gas, panel mounted housing, 230 VAC	100500K
K 100 W GAS	Chlorine / Chlorine Dioxide/ Ozone , wall mounted housing, 230 VAC	105500K
K 100 W GAS CL2 20 ppm	chlorine gas 20 ppm, wall mounted housing, 230 VAC	105506K

order information accessories

name	description	article number
GSH	gas sensor holder incl. 10 m cable	29113000K
GSH 50m	gas sensor holder incl. 50 m cable	29113100K
GE 710 CL2	sensor for chlorine gas measurement	29212001K
GE 715 CLO2	sensor for measuring chlorine dioxide gas	29212011K
GE 760 O3	sensor for measuring ozone gas	29212002K
RS 485 Modul K 100 W	Serial interface module for series K 100	50105003K

We will be delighted by your call: +49-2150-7066-11







K 100 (W) GAS H₂S, HCL, or NH₃

- Connection of one or two gas sensors
- Easy and safe operation by plain text menu guidance
- Safety by password function



applications

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-  Environmental Monitoring

description

The K 100 (W) GAS is a sophisticated instrument for continuous monitoring of gases in ambient air. The connection of one or two electrochemical sensors of the GE-700 series is possible.

particular characteristics

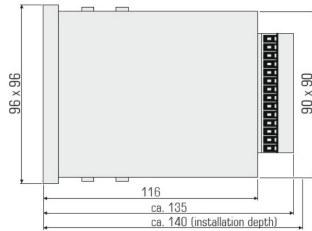
- Measuring ranges in the ppm-range depending on the used gas sensor
- Automatic sensor test, adjustable test cycle
- 3 potential-free contacts for limit value 1, limit value 2 and general alarm
- Zero current safe - the effective direction of the alarm relay is invertible
- Background illuminated two-line LC-Display
- Display of relay and error messages
- Scaleable, galvanically isolated 0/4 ..20 mA output

technical data

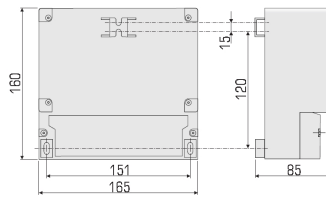
measuring parameter		
parameter	Hydrogen Sulphide Gas, Hydrogen Chloride Gas, Ammonia Gas	
measuring range	0.00 .. 50.00 ppm	Hydrogen Sulphide Gas
	0.00 .. 100.00 ppm	Hydrogen Sulphide Gas, Ammonia Gas
	0.00 .. 30.00 ppm	Hydrogen Chloride Gas
input characteristics		
accuracy	Depending on the sensor	
output characteristics		
output signal	0/4 .. 20 mA (measured value sensor 1 or sensor 2)	
load	max. 500 Ohm	
registration range	Free adjustable within the measuring range	
serial interface	RS 485 (optional)	
	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 0 .. +50 °C, storage -20 .. +65 °C	
relative humidity	max. 90% rH at 40°C (non-condensing)	
protection class	panel mounted housing	IP 54 (front), IP 30 (housing)
	wall mounted housing	IP 65
controller		
digital input	Stop via external contact	
certificates and approvals		
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.	
mechanical construction - panel mounted housing		
material	Noryl	
dimensions	90x90x116	
installation dimensions	92x92x140	
weight	0.75 kg	
connection	Push-screw terminals	
mechanical construction - wall mounted housing		
material	ABS	
dimensions	165x160x85	
weight	0.95 kg	
connection	Spring-loaded terminals	

dimensional drawing

panel mounted housing



wall mounted housing



order information

name	description	article number
K 100 W GAS H2S	hydrogen sulphide gas, wall mounted housing, 230 VAC	105518K
K 100 W GAS HCL	hydrogen chloride gas, wall mounted housing, 230 VAC	105517K
K 100 W GAS NH3	ammonia gas, wall mounted housing, 230 VAC	105513K

order information accessories

name	description	article number
GSH	gas sensor holder incl. 10 m cable	29113000K
GSH 50m	gas sensor holder incl. 50 m cable	29113100K
GE 735 H2S	sensor for measuring hydrogen sulphide	29212008K
RS 485 Modul K 100 W	Serial interface module for series K 100	50105003K
GE 725 HCL	sensor for measuring hydrogen chloride gas	29212005K
GE 740 NH3	sensor for measuring ammonia gas	29212004K






GE 710 CL2

- Amperometric 3 electrode sensor element
- Low susceptibility to abrupt changes of humidity
- High reliability



GE 710 CL2

applications

-  Environmental Monitoring
-  Ambient Air Monitoring
-  Drinking Water / Beverages

description

Sensor for measuring Chlorine gas

technical data

measuring parameter	
Chlorine Gas	0 .. 10 ppm (K100 (W) GAS) 0 .. 20 ppm (K 100 (W) GAS CL2)
ambient conditions	
temperature	-20 .. +40 °C
humidity	10 .. 90 % rH (non-condensing)
effect of humidity	no effect on zero current

order information

name	description	article number
GE 710 CL2	sensor for chlorine gas measurement	29212001K

order information accessories

name	description	article number
GSH	gas sensor holder incl. 10 m cable	29113000K
GSH 50m	gas sensor holder incl. 50 m cable	29113100K






GE 715 CLO2

- Amperometric 3 electrode sensor element
- High resolution
- High reliability



Gas-Sensor

applications

-  Environmental Monitoring
-  Ambient Air Monitoring
-  Drinking Water / Beverages

description

Sensor for measuring Chlorine Dioxide gas

technical data

measuring parameter	
Chlorine Dioxide Gas	0 .. 1 ppm (K 100 (W) GAS)
ambient conditions	
temperature	-20 .. +40 °C
humidity	15 .. 90 % rH (non-condensing)
effect of humidity	no effect on zero current

order information

name	description	article number
GE 715 CLO2	sensor for measuring chlorine dioxide gas	29212011K

order information accessories

name	description	article number
GSH	gas sensor holder incl. 10 m cable	29113000K
GSH 50m	gas sensor holder incl. 50 m cable	29113100K






GE 760 O3

- Amperometric 3 electrode sensor element
- Fast response
- High reliability



Gas-Sensor

applications

-  Environmental Monitoring
-  Ambient Air Monitoring
-  Drinking Water / Beverages

description

Sensor for measuring Ozone gas

technical data

measuring parameter	
Ozone Gas	0 .. 1 ppm (K 100 (W) GAS)
ambient conditions	
temperature	-20 .. +40 °C
humidity	10 .. 90 % rH (non-condensing)
effect of humidity	An abrupt change of rH will cause a short term drift of zero reading

order information

name	description	article number
GE 760 O3	sensor for measuring ozone gas	29212002K

order information accessories

name	description	article number
GSH	gas sensor holder incl. 10 m cable	29113000K
GSH 50m	gas sensor holder incl. 50 m cable	29113100K






GE 735 H2S

- Amperometric 3 electrode sensor element
- Fast response
- High reliability



Gas-Sensor

applications

-  Environmental Monitoring
-  Ambient Air Monitoring
-  Drinking Water / Beverages

description

Sensor for measuring Hydrogen Sulphide gas

technical data

measuring parameter	
Hydrogen Sulphide Gas	0 .. 100 ppm (K 100 (W) GAS H2S)
ambient conditions	
temperature	-20 .. +40 °C
humidity	15 .. 90 % rH (non-condensing)
effect of humidity	no effect on zero current

order information

name	description	article number
GE 735 H2S	sensor for measuring hydrogen sulphide	29212008K

order information accessories

name	description	article number
GSH	gas sensor holder incl. 10 m cable	29113000K
GSH 50m	gas sensor holder incl. 50 m cable	29113100K






GE 725 HCL

- Amperometric 3 electrode sensor element
- Fast response
- High reliability



Gas-Sensor

applications

-  Environmental Monitoring
-  Ambient Air Monitoring
-  Drinking Water / Beverages

description

Sensor for measuring Hydrogen Chloride gas

technical data

measuring parameter	
Hydrogen Chloride Gas	0 .. 30 ppm (K 100 (W) GAS HCL)
ambient conditions	
temperature	-20 .. +40 °C
humidity	15 .. 90 % rH (non-condensing)
effect of humidity	High humidity causes HCl absorption

order information

name	description	article number
GE 725 HCL	sensor for measuring hydrogen chloride gas	29212005K

order information accessories

name	description	article number
GSH	gas sensor holder incl. 10 m cable	29113000K
GSH 50m	gas sensor holder incl. 50 m cable	29113100K






GE 740 NH3

- Amperometric 3 electrode sensor element
- No carbon dioxide cross reference
- High reliability



Gas-Sensor

applications

-  Environmental Monitoring
-  Ambient Air Monitoring
-  Drinking Water / Beverages

description

Sensor for measuring Ammonia gas

technical data

measuring parameter	
Ammonia Gas	0 .. 100 ppm (K 100 (W) GAS NH3)
ambient conditions	
temperature	-20 .. +40 °C
humidity	15 .. 90 % rH (non-condensing)
effect of humidity	An abrupt change of rH will cause a short term drift of zero reading

order information

name	description	article number
GE 740 NH3	sensor for measuring ammonia gas	29212004K

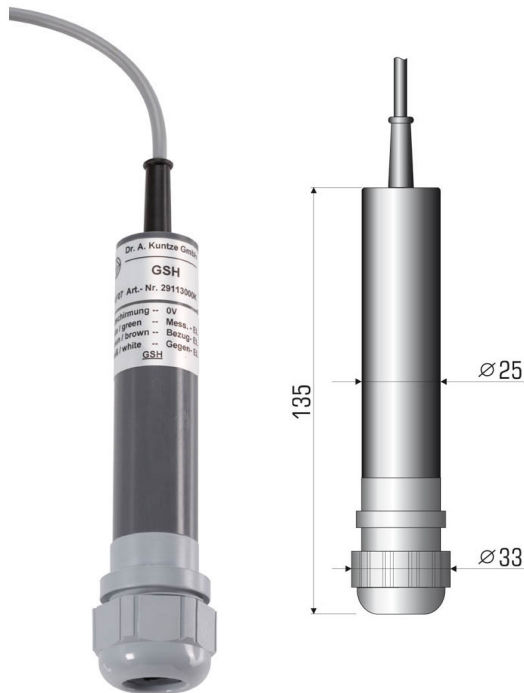
order information accessories

name	description	article number
GSH	gas sensor holder incl. 10 m cable	29113000K
GSH 50m	gas sensor holder incl. 50 m cable	29113100K



GSH

- Easy installation of the sensor by thread adapter nut
- Inclusive 10 m sensor cable



technical data

ambient conditions	
temperature	max. 40°C
mechanical construction	
material	PVC
dimensions	see dimension drawing

description

Gas sensor holder for one sensor of the GE 700 series including 10 m cable.

order information

name	description	article number
GSH	gas sensor holder incl. 10 m cable	29113000K
GSH 50m	gas sensor holder incl. 50 m cable	29113100K

order information accessories

name	description	article number
GE 710 CL2	sensor for chlorine gas measurement	29212001K
GE 715 CLO2	sensor for measuring chlorine dioxide gas	29212011K
GE 725 HCL	sensor for measuring hydrogen chloride gas	29212005K
GE 735 H2S	sensor for measuring hydrogen sulphide	29212008K
GE 740 NH3	sensor for measuring ammonia gas	29212004K
GE 760 O3	sensor for measuring ozone gas	29212002K





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





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