

# K 100 GAS

Toxic gas analyzer  
with integrated controller



Kuntze Instruments

Instrumentation for Water  
and Waste Water Analysis

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## Description

Microprocessor-controlled gas analyzer suitable for monitoring ambient air in conjunction with one or two electrochemical gas sensors of series GS-700.

## Main applications

- MAK monitoring
- Gas storage
- Water purification
- Manufacturing plants
- Chemical industry
- Garages, storage rooms

## Features

- Polycarbonate wall-mounting enclosure IP-65 NEMA 4 X
- Two-line alphanumeric liquid crystal display showing measured values and customer programmed data
- Easy user-guided operation with only five keys
- Password function preventing unauthorised access
- Measurements in the ppm range (dependent of the gas sensor used)
- Output attributable to channel 1 or 2
- Automatic sensor check
- Galvanically isolated inputs and outputs
- Integrated controller



## Controller

- 2 set points
- On/off-controller with adjustable hysteresis
- LED indication of set point relay status
- Manual operation of set points possible
- Adjustable alarm delay
- Controller stop via external contact

## Option

- Serial interface RS-485

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## Technical data

Power:	24 or 130 or 230 VAC, + 6 %, - 10 %, 40 ... 60 Hz
Power consumption:	10 VA
Ambient temperature:	operation 0 - 50 °C storage -20 - 65 °C
Humidity, % rF: (non-condensing)	max. 90 % at 40 °C
Enclosure:	wall-mounting polycarbonate enclosure 160 x 165 x 85 mm (HxWxD) protection class IP-65 (NEMA 4 X)
Weight:	1.25 kg
Connectors:	spring-loaded terminals
Measuring range:	according to gas sensor, e.g. 0 - 20 ppm chlorine 0 - 5/10 ppm chlorine dioxide 0 - 1 ppm ozone 0 - 30/50/100 ppm hydrogen sulfide 0 - 300 ppm carbon monoxide 0 - 30 ppm hydrogen chloride 0 - 30 ppm hydrogen cyanide 0 - 100 ppm ammonia 0 - 500 ppm nitrogen monoxide 0 - 50 ppm nitrogen dioxide
Accuracy:	dependent of the sensor used, ca. +/- 5% of the upper limit
Sensor test:	automatically, adjustable cycle (1-168 h)
Analogue output:	0/4 - 20 mA, galvanically isolated
Registration range:	adjustable within measuring range
Load: max.	400 Ohm
Interface (optional):	RS 485
Electromagn. compatibility:	according to DIN EN 50081-1 and 50081-2
In compliance with:	CE

## Controller

to control alarm devices, 2 set points, freely attributable to sensors 1 or 2, and alarm

Control functions:	on/off-controller with adjustable hysteresis SP1: without delay for acoustic signal (disable via delete-key) SP2: with delay
Control lights (LED):	Indication of set point relay status
Manual operation:	manual operation of set points possible
Alarm delay:	affecting SP2; adjustable (0-1999 s)
Relay output:	3 relay outputs for SP 1, SP 2, alarm each with 1 NO/NC contact (SPDT) max. 250 V, 6 A, 550 VA;
Digital input:	external contact hold (controller stop)

## Order numbers:

K-100 GAS with wall-mounting enclosure, with integrated controller	9618447
Optional serial interface RS-485	7611453

If supply voltage differs from 130 V, please indicate.