

## GAS ANALYZER AG/\*

The AG/\* gas analyzer is designed to measure the volume fraction of methane (CH<sub>4</sub>) or carbon dioxide (CO<sub>2</sub>), oxygen (O<sub>2</sub>), carbon monoxide (CO) and hydrogen sulfide (H<sub>2</sub>S) in the atmosphere.

The device is used for personal protection of services working in methane explosion hazard zones and everywhere where there are hazardous and toxic substances, e.g. miners, firefighters, medical rescuers, maintenance services, sewage treatment plant employees, telecommunications workers, etc.

It has programmable alarm thresholds for each measuring gas, the exceeding of which is signaled by optical, audible and vibrating alarm.

AG / \* is powered from the internal Li-SoCl<sub>2</sub> battery, which allows you to work for about 2 years without having to replace it. After this period, we will replace the battery with a new one.

IR optical sensors are used to measure methane or carbon dioxide, and electrochemical sensors are used to measure oxygen, carbon monoxide and hydrogen sulphide.

AG/\* gas analyzer by using manual or electric pump and a measuring probe enables taking gas samples and measuring them from a greater distance.

Meets the requirements of the ATEX Directive 2014/34 / EU, Directive RED / 014/53 / EU, Directive EMC 2014/30 / EU.



**Certificate ATEX:**  
**OBAC 18 ATEX 0056X**



**WORKING TIME - 2 YEARS WITHOUT BATTERY REPLACEMENT**

**LCD DISPLAY WITH BACKLIGHT**

**MEASURING UP TO 4 GASES (SEVERAL CONFIGURATION ON REQUEST)**

**REGISTRATION OF MEASUREMENT RESULTS AND WIRELESS COMMUNICATION WITH COMPUTER FOR THE ANALYSIS OF ARCHIVED MEASUREMENT RESULTS**

**CONFIGURATION AND CALIBRATION USING A PC**

### DETAILED PRODUCT INFORMATION:



Zakład Produkcji i Montażu Urządzeń Górniczych  
tel.: /+48 32/ 323 42 53; e-mail: dg@carbo.com.pl

DG-051-05.2019



PKiMSA "CARBOAUTOMATYKA" SA  
INTRODUCED AND USES QUALITY  
MANAGEMENT SYSTEM AS WELL AS  
OCCUPATIONAL HEALTH AND SAFETY  
SYSTEM

**TECHNICAL DATA:**

Power supply	Internal Li-SoCl <sub>2</sub> battery
Operating time	2 years
Principle of sensor operation	CH <sub>4</sub> or CO <sub>2</sub> - absorption of infrared radiation CO, O <sub>2</sub> , H <sub>2</sub> S - measurement using the electrochemical method
Entering of gas	Diffusion or using a pump
Measuring ranges	- methane CH <sub>4</sub> 0 ÷ 100 % CH <sub>4</sub>
	- carbon dioxide CO <sub>2</sub> 0 ÷ 5 % CO <sub>2</sub>
	- carbon monoxide CO 0 ÷ 500 ppm CO or 0 ÷ 2000 ppm CO
	- oxygen O <sub>2</sub> 0 ÷ 30 % O <sub>2</sub>
	- hydrogen sulfide H <sub>2</sub> S 0 ÷ 200 ppm H <sub>2</sub> S
Resolution	0,01 % for 0 ÷ 9,99 % CH <sub>4</sub> and for 0÷5 % CO <sub>2</sub> , 0,1 % for 10 ÷ 100 % CH <sub>4</sub> and for 0÷25 % O <sub>2</sub> 1 ppm CO, H <sub>2</sub> S
Operation environment	Relative humidity up to 98 % (at +25°C)
	Atmospheric pressure 80 ÷ 120 kPa
	Ambient temperature -20°C ÷ +50°C
Dustiness of air	max 1000 mg/m <sup>3</sup>
Sound-pressure level at a distance of 30 cm	not less than 95 dB
Equipment protection level	 I M1 Ex ia I Ma  II 1G Ex ia IIC T4 Ga
Ingress protection	IP67
Dimensions	117 x 70 x 35 mm
Weight	200 g
ATEX certificate: OBAC 18 ATEX 0056X	

**AG/\* VERSIONS:****AG / \***

\* **from 1 to 4** (number of measured gases) - possibility of installing measuring sensors,  
e.g. CH<sub>4</sub> or CO<sub>2</sub>, CO, O<sub>2</sub>, H<sub>2</sub>S)

Examples of versions

**AG/1** - 1 gas meter

**AG/2** - 2 gas meter

**AG/3** - 3 gas meter

**AG/4** - 4 gas meter

**WARNING!**

**CH<sub>4</sub>, CO<sub>2</sub> sensors - InfraRed sensors**  
**CO, O<sub>2</sub>, H<sub>2</sub>S- electrochemical sensors**