

# Carbon oxide gas alarm COY1



Designed for light and audible alarm generation when carbon oxide concentration (CO) in air exceeds the preset threshold values. Designed for forming of control signal for executive device by means of relay contacts.

## Application

In boiler houses, residential sector of municipal engineering, at parking, in garages and other objects where carbon monoxide emission and accumulation is possible.



Principle of operation – electrochemical.  
Sampling – diffusion.  
Type of gas alarm – fixed.

## Basic technical characteristics

Characteristics	Values	Remarks
Standard thresholds setting, mg/m <sup>3</sup>	1-st 2-nd 20 100	
Relative error of generation, %, not more	± 25	
Generation of dry relay contacts when thresholds concentration achieved: 1-st threshold 2-nd threshold	one group one group	parameters of dry relay contacts: 30 V; 2,5 A 220 V; 5 A
Operating temperature range, °C	-10 / +50	
Protection degree	IP 30	
Supply voltage, V	from 150 to 253	frequency 50±1 Hz
Consumed power, VA, not more	5	
Time of alarm generation, s, not more	45	
Overall dimensions, mm, not more	195x60x120	
Weight, kg, not more	1	
Average lifetime of gas alarm, years, not less	10	for sensor, 5 years

## Advantage

- > Availability of dry relay contacts with increased load capacity that allows to switch on (off) ventilation, alarm and other executive devices;
- > Availability of "TEST" button that allows to check functionality of device and shutoff valves without the use of gas mixtures;

- > Availability to connect to dispatcher desk ДИСП or to similar devices;
- > Connection by means of terminal connections;
- > Gas alarm COY-1 has an output "CONTROL" – dc voltage output signal from 0,4 to 2,0 V, designed for control of gas alarm metrological characteristics.



**Recommended type of cable**  
ШВВП 3x0,25 ГОСТ 7399-97;  
ПВС 3x0,5 ГОСТ 7399-97;  
ШВЛ 3x0,75 ГОСТ 7399-97.



Availability of external input "EMERGENCY" that allows to connect devices in loop with gas alarms СТГ-1 and СТГ-6М or to connect them to fire or burglar alarm.



## Standard equipment

- > Gas alarm;
- > SPTA set;
- > Documentation.



## Optional items can be ordered

- > Dispatcher desk ДИСП ИБЯЛ.465213.003;
- > ЭХД (ECS electrochemical sensor) ИБЯЛ.305649.035-83 (instead the sensor that has reached the end of its service life).