

Detector Specifications

Gas concentration sensor DKJ-02 is intended for toxic and flammable gases for detection in the environment, measurement of their concentration and data transmission

The scope of application of the sensors is gas concentration control in domestic, administrative, in public and industrial premises, garages, tunnels.

Technical parameters

- measurement range
- toxic gases: 0... CMA X ppm;
- flammable gases: 0...50% LEL;

Toxic gas concentrations, relative measurement error: ±10%
Flammable gas concentrations, absolute measurement error: ±3% LEL;
Preparation time for work is 60 seconds.
Sensor dimensions 98 x 65 x 35 mm
Sensor weight 300 g



works in a pair with control panel US-10 and US-12

Gas Type	toxic gases					flammable gases		
Model Number	DKJ-2 CO	DKJ-2 NO2-NO	DKJ-2 H2S	DKJ-2 NH3	DKJ-2 CL2	DKJ-2 CH4	DKJ-2 C3H8	DKJ-2 LPG
Supply Voltage	24V DC	24V DC	24V DC	24V DC	24V DC	24V DC	24V DC	24V DC
Sensor Type	Electro Chemical	Catalytic	Electro Chemical	Electro Chemical	Electro Chemical	Catalytic	Catalytic	Catalytic
Sensor Life	2 years	2 years	2 years	2 years	2 years	2 years	2 years	2 years
Range	0-500ppm	0-100ppm 0-200ppm 0-500ppm 0-20ppm 0-02ppm	0-200ppm	0-500ppm	0-10ppm	0-50%LEL	0-50%LEL	0-50%LEL
Operating Temperature	-20 to 50°C	-20 to 50°C	-20 to 50°C	-20 to 50°C	-20 to 50°C	-20 to 50°C	-20 to 50°C	-20 to 50°C
Maximum Humidity (Constant)	15-90% RH	15-90% RH	15-90% RH	15-90% RH	15-90% RH	15-90% RH	15-90% RH	15-90% RH
Maximum Humidity (Intermittent)	0-99% RH	0-99% RH	0-99% RH	0-99% RH	0-99% RH	0-99% RH	0-99% RH	0-99% RH
Response Time	20 seconds	20 seconds	20 seconds	20 seconds	20 seconds	20 seconds	20 seconds	20 seconds
Recommended Storage Temperature	0 to 20°C	0 to 20°C	0 to 20°C	0 to 20°C	0 to 20°C	0 to 20°C	0 to 20°C	0 to 20°C

Control panel US-10 is intended for:

- supply voltage to gas concentration sensors DKJ-02;
- receive information from sensors and process it;
- create a light and sound alarm, and switch the relay contacts,

when the gas concentration exceeds the set emergency levels;

The working mode of the alarm is continuous.

Maximum connected number of sensors DKJ-2 : 64 units

Ambient temperature from 0 to plus 50oC;

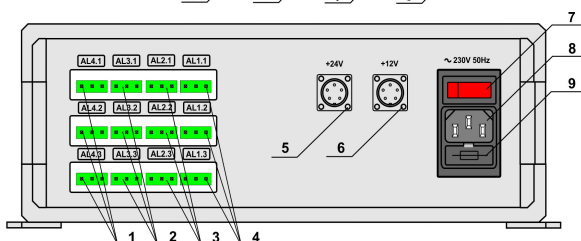
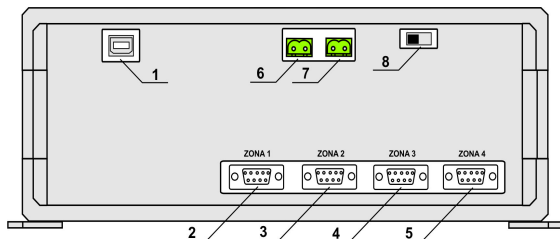
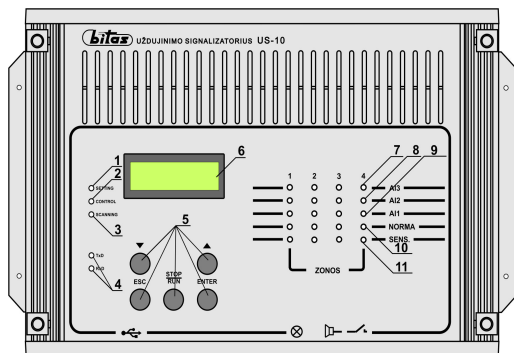
Relative humidity (60 ± 20) %;

Atmospheric pressure from 84 to 106.7 kPa;

Relative humidity (30...80) %;

Working environment - non-explosive;

supply voltage from 180 to 250 V, 50Hz;



X 64 units



up to four different gases