

Power supply and alarm unit БПС-21М-М (loop)



БПС-21М-М is designed for information gathering and power supply of gas alarms ДАТ-М-06, gas alarms ДАХ-М-06, gas analyzers ДАК-СН4-100Н1, ДАК-С3Н8-50Н1, ДАК-СО2-1Н1, ДАК-СН1-100Н1, ДАК-СН1-50Н1, thermomagnetic gas analyzers ДАМ when they are connected in loop.

Application: monitoring of atmosphere at industrial facilities in the process of production and processing of oil and gas; at chemical and metallurgic industrial process plants; at gas facilities and vehicle fleets; in paint-and-varnish industry; at fuel and lubricant depots (ports, railroads, petroleum storage depots, etc.).

Operation - continuous.

Basic technical characteristics

Characteristics	Values	Remarks
Supply voltage, V	from 150 to 253	With frequency 50±1 Hz
Warm-up time, min, not more than	5	
Power consumption, VA, not more than	90	
Degree of protection	IP20	
Rated output voltage, V	30 ± 2	
Ambient temperature, °C	from +1 to +50	
Communication channel:		
RS485	MODBUS RTU Protocol	9 600 Bd
Ethernet	MODBUS RTU Protocol	100 kBd
Overall dimensions, mm, not more than	219 x 210 x 190	weight 6 kg
Average service life, years, not less than	10	

БПС-21М-М has general purpose industrial version. БПС-21М-М provides possibility to connect and scan from 1 to 64 sensors (set of sensors is optional and is restricted within total power that must not exceed 60 W taking into account link loss).

БПС-21М-М performs the following functions:

- generation of direct current voltage for supply of sensors;
- communication with sensors connected in loop by digital channel RS485;
- communication with external devices by digital channels RS485 and Ethernet;
- light alarm indicating power supply and normal operation;
- generation of alarm "FAILURE" – intermittent red light and audible alarm indicating break or short circuit of sensor power supply line with simultaneous indication of reason for gas alarm response;
- light (intermittent red light) and audible alarm indicating that concentration has reached actuation thresholds for each sensor (three actuation thresholds);
- sending of signal to external circuit - 8 groups of dry switching relay contacts (RELAY1...RELAY8), that are programmed to switch over when alarm is actuated by any threshold, or to "FAILURE" responding to any sensor or group of sensors;
- indication of measured values and status of each sensor in loop;
- archiving of measurement results and status of each sensor in loop in real time mode.

Standard equipment:

Power supply and alarm unit БПС-21М-М, technical documentation, SPTA set, CD disk with service software.

At extra charge the following products are supplied

Gas analyzers ДАХ-М-06 (ИБЯЛ.413412.005-05), gas alarms ДАТ-М-06 (ИБЯЛ.413216.044-05), gas analyzers ДАК (ИБЯЛ.418414.071-26...-30), thermomagnetic gas analyzers ДАМ (ИБЯЛ.407111.002-03...-49).