

OXYGEN CONCENTRATION SENSOR

OXY-Safe

BSO₂S-YM

Feature Highlights:

Measurement range 0.0 ÷ 100.0% O₂

Accuracy ± 0.1% O₂

Audible and optical alarm



Solution / Benefits:

The OXY-Safe Oxygen Concentration Sensor is a device used to measure oxygen concentration in the range of 0-100 Vol% O₂.

The basic element of the device is the oxygen sensor, consisting of an electrochemical cell that produces a voltage of 9.13mV when exposed to air (about 21% oxygen concentration), under conditions of a normal pressure of 1 Atm, at a temperature of + 20 ° C.

The sensor is set for both optical and audible alarm when a certain level of oxygen concentration is reached.

Safety:

The sensor is calibrated to measure the concentration of oxygen indoors.

The sensor must not come into contact with silicone products or silicone vapors, otherwise it may be damaged.

Charging with electrostatic charges may lead to sensor failure. Repairs will only be carried out by qualified personnel authorized by the manufacturer.

In case of improper use or improper maintenance, the user is responsible for the operation of the appliance.

NOTE: BlueSpace TECHNOLOGY has the policy of continuing development and reserves the right to make design changes and improvements to the products. Specifications are subject to be changed without notice.

Company: S.C. BlueSpace TECHNOLOGY S.R.L., Unique Registration Code: RO 28627965, Trade Register Number: J23/539/01.02.2021, Address: Șos. Alexandriei, No. 82, Bragadiru, Ilfov, Romania, 077025, E-mail: office@bstech.ro, Certifications: ISO 9001, ISO 27001, ISO 13485, ISO 14001, UE and NATO certified as TEMPEST manufacturer and vendor.

TECHNICAL PARAMETERS

BSO₂S-YM

Brand	BST yellowmed®
Product specifications	
Measurement range	0.0 ÷ 100.0% O ₂ (oxygen concentration)
Accuracy (at nominal temperature 25° C)	± 0.1% O ₂ (calibrated device)
Indicator	Stand-by - short blink Alarm - long blink
Alarm	sound: piezo buzzer optics: Red LED relay contact output: COM / NO or COM / NC
Alarm level	99dB
Response time	max. 15 sec.
Voltage	24V / 3.7V battery
Battery lifetime	minimum 72h (no alarm)
History level	24h
Static consumption	max. 120M
Alarm consumption	200 mA
Storage temperature	-20 ° C ÷ + 50 ° C
Working temperature	0 ° C ÷ + 40 ° C
Operating humidity	15 ÷ 99% RH, non-condensation
Sensor lifetime	5 years
Carcase	Aluminum, IP65 degree of protection
Size	150mm x 60mm x 42mm
Weight	200g
Warranty	24 months

Operating:

The oxygen sensor is installed horizontally, with the measuring end facing outwards, thus avoiding the accumulation of gas mixture and the erroneous reading of the oxygen concentration.

The sensor reacts very quickly (max. 15 sec.) To high concentrations of oxygen emitted indoors and warns both acoustically and visually, by alarm that the set concentration is exceeded, being equipped with an internal buzzer that produces a sound of up to 99 dB, simultaneously with the long blink of a LED. The alarm automatically shuts off when the oxygen concentration falls below the set threshold.

The oxygen concentration sensor is compatible with the sensors used by the detection and alarm control panels.

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