Technology of the Future
Protection for today

JSC "Electronstandart-pribor" model SSS-903 Gas detector is an explosion-proof, fixed type hydrogen sulfide, combustible and toxic gas detector. The SSS-903 uses thermal catalytic, electrochemical and infrared sensor for gas detection and monitoring in PPM range. Possible target gases include: methane, propane, hexane, carbon dioxide, hydrogen chlorine, hydrogen sulfide, nitric oxide, sulfur dioxide and many others.

SSS-903 Gas Detector is design for automatic and continuous detection and monitoring of flammable, toxic and combustible gas levels present in environment.

The specific application environment relates to explosive areas, specific to Classes 1 and 2, that contain the potential hazard of forming explosive gas mixtures attributed to the subgroup IIC and to explosion hazard categories T1–T6, inclusive of the following zones, premises and facilities.

HYDROGEN SULFIDE, COMBUSTIBLE AND TOXIC GAS DETECTOR SSS-903

Applications

- Drilling and production platforms
- Refineries, bulk terminal, and tank farms
- Compressor stations and pipeline facilities
- Petrochemical, paint, and fertilizer plants
- Fuel loading facilities
- Boiler statons
- Transportation facilities (airports and subways)
- Residential areas

Features and benefits

- LCD 2-Line Display
- Low power consumption
- Digital, analog and relay outputs provide reliable status information across a range of communication formats
- Convenient and flexible operation with a simple calibration routine
- Accurate & reliable gas detection and monitoring
- Explosion-proof package allows for hazardous environment operation

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SPECIFICATIONS

Electrical Characteristics

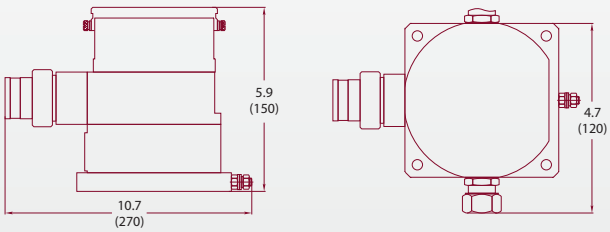
Voltage	18 to 30 V DC
Power comsumption	< 6 W
Outputs	RS 485, MODBUS RTU, 4–20 mA, relay “dry” contact
Sensor Type	Optical, electrochemical, catalytic

Technical Specifications

Gases	Methane, propane, hexane, carbon dioxide, ethylene, benzole, hydrogen, oxygen, carbon monoxide, hydrogen sulfide, nitrogen dioxide, sulfur dioxide, ammonia, chlorine
Range	0 to100% PPM 0–10 MAC
Accuracy	± 3% PPM up to 50% LEL ± 5% PPM above 50% LEL
Humidity range	up to 95% , non-condensing
Response time	less 5 sec
Operating temperature	- 60°C to + 60°C
Ingress Protection	IP 67
Explosionproof mark	
UPES-903	1Exdib IICT6X
PGT-903, PGO-903	1Exibd IIBT6
PGE-903, PGF-903	1Exib IIBT6
PGE-903A	1Exibl IICT6

Dimensions

Dimensions shown in inches (centimeters)



Controlled Gases

Converter type	Detected component	Detected component measurement range	
		Volume fraction	Mass concentration, mg/m³
PGT-903-methane	CH_4	(0...2,2) %	–
PGO-903-methane	CH_4	(0...2,2) %	–
PGT-903-propane	C_3H_8	(0...0,85) %	–
PGO-903-propane	C_3H_8	(0...0,85) %	–
PGT-903-hexane	C_6H_{14}	(0...0,5) %	–
PGO-903-hexane	C_6H_{14}	(0...0,5) %	–
PGO-903-carbon dioxide	CO_2	(0...2) %	–
PGO-903-carbon dioxide	CO_2	(0...5) %	–
PGF-903-surf butylene-0–20	C_4H_8	(0...19,3) ppm	0...45
PGF-903-surf butylene-0–2000	C_4H_8	(0...43) ppm (43...1500) ppm	0...100 100...3500
PGF-903-ethylene	C_2H_4	(0...86) ppm (86...171) ppm	0...100 100...200
PGF-903-benzene	C_6H_6	(0...1,5) ppm (1,5...37) ppm	0...5 5...120
PGE-903A-hydrogen	H_2	(0...4) %	–
PGE-903A-oxigen	O_2	(0...30) %	–
PGE-903-carbon monoxide	CO	(0...17) ppm (17...103) ppm	0...20 20...120
PGE-903-hydrogen sulfide	H_2S	(0...7) ppm (7...32) ppm	0...10 10...45
PGE-903-nitrogen dioxide	NO_2	(0...1) ppm (1...10,5) ppm	0...2 2...20
PGE-903-sulfur dioxide	SO_2	(0...3,8) ppm (3,8...18,8) ppm	0...10 10...50
PGE-903-ammonia-0–70	NH_3	(0...28) ppm (28...99) ppm	0...20 20...70
PGE-903-ammonia-0–500	NH_3	(0...99) ppm (99...707) ppm	0...70 70...500
PGE-903-chlorine	Cl_2	(0...0,33) ppm (0,33...5) ppm	0...1 1...15

Mechanical characteristics:

Material	Aluminum alloy/ SS 316
Cable Entry	ExdU, FALS 01
Weight	3,3 kg
Warranty	2 years

Certification:

ATEX

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