



DEGA NS III

GAS DETECTION TRANSMITTER



- Detection types: catalytic, electrochemical, infrared, photoionization (PID), semiconductor
- Detection of toxic and combustible gases and oxygen
- For explosive environment ATEX zone 1
- Protection level IP64/ IP66 (with protection cover)
- Produced in compliance with standard SIL



ISO 9001:2015
Quality management Systems
Système de Qualité
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Gas detection transmitter **DEGA NS III**

DEGA NS III transmitter is a part of the gas detection system. Transmitter is located in monitored premises in which critical situations due to accumulation of flammable or toxic substances can occur. The transmitter can be connected to control panels DEGA UPA III, DEGA UKA III and DEGA UDA III. Standard Output : RS485, without cable gland.

TECHNICAL SPECIFICATION:

Power supply:	8-28 V DC
Output:	4 - 20 mA, RS485 (DEGA protocol)
Cover protection level:	IP 64, with water protection cover DEGA WATER CAP IP66
Input:	1,2 W
Specification in compliance with ATEX:	II 2G Ex d IIB+H2 T6 Gb Tamb: -40°C - +60°C
Placement:	BE3N2 - areas with danger of explosion, zone 1
Dimensions(WxHxD):	150 x 170 x 65 mm
Weight:	2,1 kg
Sensor technology:	catalytic, electrochemical, infrared, photoionization, semiconductor
Estimated life of sensor in clean environment:	catalytic (1-2 years), electrochemical (1-3 years), infrared (minimum 5 years), photoionization (5000 hours), semiconductor (1-2 years)
Relative humidity of the ambient air:	max. 95%

EXPANSION MODULES:

DEGA NS III RS485

MODBUS, Internal module in transmitter

Detected substance	Formula	Range	Sensor	Product type
Flammable and combustible gases	LEL	0-100 % LEL	CL	DEGA NSHC-CL 100 III
Flammable and combustible gases	LEL	0-100 % LEL	IL	DEGA NSHC-IL 100 III
VOC	C3H6O	0-5000 ppm	PID	DEGA NSVOC-PID III
Ammonia	NH3	0-100 ppm	EL	DEGA NSA-EL 100 III
Ammonia	NH3	0-1000 ppm	EL	DEGA NSA-EL 1000 III
Gasoline vapor	C6H14	0-100 % LEL	CL	DEGA NSB-CL 100 III
Hydrogen bromide	HBr	0-20 ppm	EL	DEGA NSHBr-EL 20 III
Butane	C4H10	0-100 % LEL	CL	DEGA NSP-CL 100 III
Butane	C4H10	0-100 % LEL	IL	DEGA NSP-IL 100 III
Butane	C4H10	0-5000 ppm	PID	DEGA NSP-PID III
Ethanol	C2H6O	0-100 % LEL	IL	DEGA NSC2H5OH-IL 100 III
Ethanol	C2H6O	0-450 ppm	PID	DEGA NSC2H5OH-PID 450 III
Ethene	C2H4	0-100 % LEL	IL	DEGA NSC2H4-IL 100 III
Ethylenoxid	C2H4O	0-10 ppm	EL	DEGA NSC2H4O-EL 10 III
Ethylene oxide	C2H4O	0-100 % LEL	IL	DEGA NSC2H4O-IL 100 III
Ethene	C2H4	0-10 ppm	EL	DEGA NSC2H4-EL 10 III
Formaldehyde	CH2O	0-10 ppm	EL	DEGA NSCH2O-EL 10 III
Phosphine	PH3	0-5 ppm	EL	DEGA NSPH3-EL 5 III
Hexane	C6H14	0-100 % LEL	IL	DEGA NSG6H14-IL 100 III
Chlorine	Cl2	0-20 ppm	EL	DEGA NSCL2-EL 20 III
Hydrogen chloride	HCl	0-20 ppm	EL	DEGA NSHCL-EL 20 III
Hydrogen chloride	HCN	0-50 ppm	EL	DEGA NSHCN-EL 50 III
Oxygen	O2	0-100 % LEL	EL	DEGA NSO2-EL 100 III
Methane	CH4	0-100 % LEL	CL	DEGA NSM-CL 100 III

Detected substance	Formula	Range	Sensor	Product type
Methane	CH4	0-100 % LEL	IL	DEGA NSM-IL 100 III
Nitrogen dioxide	NO2	0-20 ppm	EL	DEGA NSNO2-EL 20 III
Nitric oxide	NO	0-250 ppm	EL	DEGA NSNO-EL 250 III
Nitrous oxide	N2O	0-1 % LEL	IL	DEGA NSN2O-IL 1 III
Chlorine dioxide	ClO2	0-5 ppm	EL	DEGA NSCLO2-EL 5 III
Sulfur dioxide	SO2	0-20 ppm	EL	DEGA NSSO2-EL 20 III
Carbon monoxide	CO	0-1000ppm	EL	DEGA NSCO-EL 1000 III
Carbon dioxide	CO2	0-5 % vol.	IL	DEGA NSCO2-IL 5 III
Ozone	O3	0-5 ppm	EL	DEGA NSO3-EL 5 III
Pentane	C5H12	0-100 % LEL	IL	DEGA NSC5H12-IL 100 III
Hydrogen peroxide	H2O2	0-100 ppm	EL	DEGA NSH2O2-EL 100 III
Propylene	C3H6	0-100 % LEL	IL	DEGA NSC3H6-IL 100 III
Silane	SiH4	0-50 ppm	EL	DEGA NSSiH4-EL 50 III
Hydrogen sulfide	H2S	0-50 ppm	EL	DEGA NSH2S-EL 50 III
Hydrogen sulfide	H2S	0-2000 ppm	EL	DEGA NSH2S-EL 2000 III
Hydrogen	H2	0-1000 ppm	EL	DEGA NSH-EL 1000 III
Hydrogen	H2	0-100 % LEL	CL	DEGA NSH-CL 100 III
Hydrogen	H2	0-4000 ppm	EL	DEGA NSH-EL 4000 III
Other toxic gases	-	According gas type	EL	More than 50 other gases
Other combustible gases	-	According gas type	IL	More than 50 other gases
Other combustible gases	-	According gas type	CL	More than 50 other gases



Transmitter is designed for detection in industrial and commercial environments requiring certification ATEX (Zone 1).

AVAILABLE ACCESSORIES:



Cover for transmitter NS III - mechanical



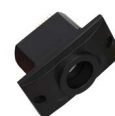
Cover for transmitter NS III - Stainless steel 316



DEGA GAS INLET NS III calibration adapter (cup)



DEGA WATER CAP Splash cap, NS III



Sensor DEGA NS III

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