



DEGA NS III LCD

GAS DETECTION TRANSMITTER



- Detection types: catalytic, electrochemical, infrared, photoionization (PID), semiconductor
- Detection of toxic and combustible gases and oxygen
- For explosive environments ATEX zone 1
- Protection level IP64/ IP66 (with protection cover)
- Produced in compliance with standard SIL
- Output: 4-20mA, RS485, Modbus, 4xRelé



ISO 9001:2015
Quality management Systems
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Gas detection transmitter **DEGA NS III LCD**

DEGA NS III LCD 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 has an LCD display to show measured concentrations of detected substances in real time. 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, Modbus |
| 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 (1 year), semiconductor (1-2 years) |
| Relative humidity of the ambient air: | max. 95% |

EXPANSION MODULES:

DEGA NS III LCD RS485

MODBUS, Internal module in transmitter

DEGA NS III LCD Relay Modul

Internal 3-relay, 250 V/10 A

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

| Detected substance | Formula | Range | Sensor | Product type |
|-------------------------|---------|--------------------|--------|-----------------------------|
| Methane | CH4 | 0-100 % LEL | IL | DEGA NSM-IL 100 III LCD |
| Nitrogen dioxide | NO2 | 0-20 ppm | EL | DEGA NSNO2-EL 20 III LCD |
| Nitric oxide | NO | 0-250 ppm | EL | DEGA NSNO-EL 250 III LCD |
| Nitrous oxide | N2O | 0-1 % LEL | IL | DEGA NSN2O-IL 1 III LCD |
| Chlorine dioxide | ClO2 | 0-5 ppm | EL | DEGA NSClO2-EL 5 III LCD |
| Sulfur dioxide | SO2 | 0-20 ppm | EL | DEGA NSSO2-EL 20 III LCD |
| Carbon monoxide | CO | 0-1000ppm | EL | DEGA NSCO-EL 1000 III LCD |
| Carbon dioxide | CO2 | 0-5 % vol. | IL | DEGA NSCO2-IL 5 III LCD |
| Ozone | O3 | 0-5 ppm | EL | DEGA NSO3-EL 5 III LCD |
| Pentane | C5H12 | 0-100 % LEL | IL | DEGA NSC5H12-IL 100 III LCD |
| Hydrogen peroxide | H2O2 | 0-100 ppm | EL | DEGA NSH2O2-EL 100 III LCD |
| Propylene | C3H6 | 0-100 % LEL | IL | DEGA NSC3H6-IL 100 III LCD |
| Silane | SiH4 | 0-50 ppm | EL | DEGA NSSiH4-EL 50 III LCD |
| Hydrogen sulfide | H2S | 0-50 ppm | EL | DEGA NSH2S-EL 50 III LCD |
| Hydrogen sulfide | H2S | 0-2000 ppm | EL | DEGA NSH2S-EL 2000 III LCD |
| Hydrogen | H2 | 0-1000 ppm | EL | DEGA NSH-EL 1000 III LCD |
| Hydrogen | H2 | 0-100 % LEL | CL | DEGA NSH-CL 100 III LCD |
| Hydrogen | H2 | 0-4000 ppm | EL | DEGA NSH-EL 4000 III LCD |
| 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 LCD - mechanical



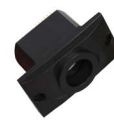
Cover for transmitter NS III LCD - Stainless steel 316



DEGA GAS INLET NS III LCD calibration adapter (cup)



DEGA WATER CAP Splash cap, NS III LCD



Sensor DEGA NS III LCD