



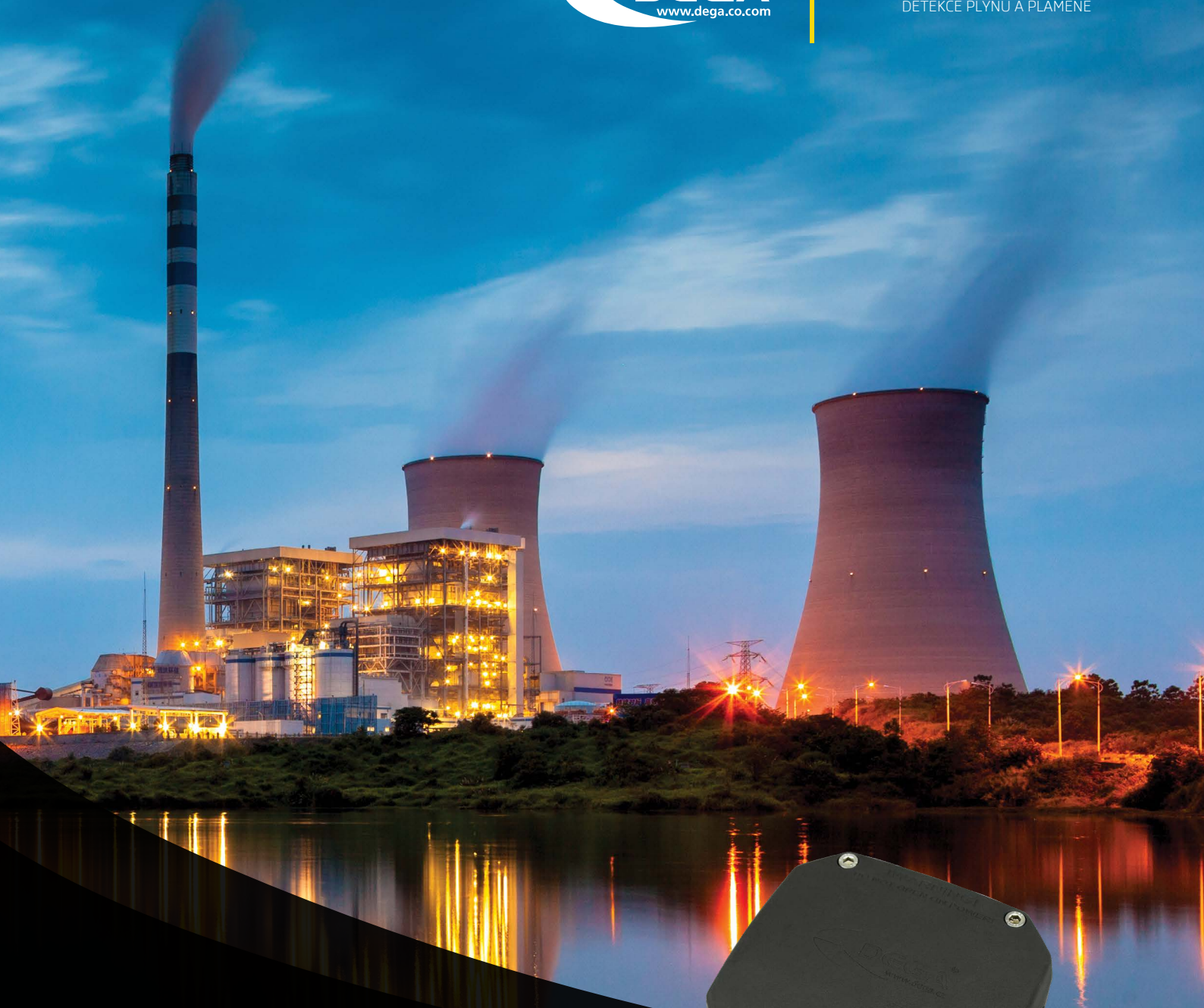
History



4-20
mA
Input



GAS AND FLAME DETECTION
DETEKCE PLYNU A PLAMENE



DEGA NS II

GAS DETECTION TRANSMITTER

- Types of detection: catalytic, electrochemical, infrared, photoionization (PID), semiconductor
- Detection of toxic and explosive gases, including oxygen
- Sound signalization
- Certification for explosive atmospheres
- Protection IP 54/IP 66 (with cover)
- 4-20 mA output, RS485 (Modbus)



ISO 9001:2015
Quality management Systems
Système de Qualité
www.sgs.com



Gas detection transmitter **DEGA NS II**

The DEGA NS II transmitter is a part of the gas detection system and is located in the monitored area, where a critical situation can be created by the accumulation of flammable or toxic substances, even in an explosive environment. The transmitter converts the measured substance concentration into a unified 4-20 mA current signal (DEGA UPA III). The transmitter can be connected to the evaluation control panels DEGA UPA III, DEGA UKA III, and DEGA UDA III (via RS485).

TECHNICAL DETAILS:

| | |
|--|--|
| Power voltage: | 8-30 VDC |
| Output: | 4-20 mA, RS485, Modbus |
| Degree of protection by cover: | IP 54, with DEGA WATER CAP IP 66 cover |
| Power consumption: | 1,2 W |
| Marking according to ATEX: | II 3 G Ex db ec IIC T5/T4 Gc Tamb: -20 °C až +60 °C/0 °C až +40 °C |
| Marking according to IECEx: | Ex db ec IIC T4 Gc Ex db ec IIC T5 Gc Ex ec IIC T5 Gc Ex ic ec nC IIC T4 Gc |
| Marking according to IAC: | Ex d nA IIC T4 Ge Ex d nA IIC T5 Ge Ex nA IIC T5 Ge |
| Location: | BE3N2 – potentially explosive atmospheres, zone 2 |
| Dimensions: | 140 x 140 x 70 mm (WxHxD) |
| Weight: | 0,7 kg |
| Sensor type: | catalytic, electrochemical, infrared, photoionization (PID), semiconductor |
| Estimated sensor life in the transmitter in a clean environment: | catalytic/semiconductor (1-2 years), electrochemical (1-3 years), infrared (5 years and more), photoionization (5000 hours) |

NOMENCLATURE:

DEGA NSx-yL II

- **x** type of gas detected
- **y** sensor type . . . (CL) Catalytic
(EL) Electrochemical
(IL) Infrared
(PID) Photoionization
(SL) Semiconductor

MODULE:



DEGA NS II
RS485
(Internal output
RS485)



The transmitter is designed for detection in industrial and commercial areas with a risk of explosion, requiring ATEX certification (zone 2).

ACCESSORIES:



DEGA NS II
stainless steel cover



DEGA NS II
mechanical cover



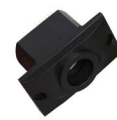
DEGA WATER CAP
splash guard



DEGA FUNNEL
funnel



DEGA GAS INLET
calibration
attachment



DEGA NS II SU
replacement sensor
unit



Cable Glades M20x1,5

Gas detection transmitter **DEGA NS II**

GAS SPECIFICATIONS:

| Gas | Formula | Cas | Measuring range |
|------------------------------|---------|------------|-----------------|
| Acetylene | C2H2 | 74-86-2 | 0-100 % LEL |
| Ammonia | NH3 | 7664-41-7 | 0-100 ppm |
| Ammonia | NH3 | 7664-41-7 | 0-1000 ppm |
| Ammonia | NH3 | 7664-41-7 | 0-10000 ppm |
| Ammonia | NH3 | 7664-41-7 | 0-500 ppm |
| Ammonia | NH3 | 7664-41-7 | 0-5000 ppm |
| Ammonia | NH3 | 7664-41-7 | 0-2000 ppm |
| Bromine | Br | 7726-95-6 | 0-20 ppm |
| Bromine | Br | 7726-95-6 | 0-200 ppm |
| Butane / Propan-Butane / LGP | C4H10 | 106-97-8 | 0-100 % LEL |
| Carbon dioxide | CO2 | 124-38-9 | 0-5 % vol. |
| Carbon dioxide | CO2 | 124-38-9 | 0-100 % vol. |
| Carbon monoxide | CO | 630-08-0 | 0-1000 ppm |
| Carbon monoxide | CO | 630-08-0 | 0-200 ppm |
| Carbon monoxide | CO | 630-08-0 | 0-500 ppm |
| Carbon monoxide | CO | 630-08-0 | 0-2000 ppm |
| Ethane | C2H6 | 74-84-0 | 0-100 % LEL |
| Ethanol | C2H5OH | 64-17-5 | 0-100 % LEL |
| Ethylene | C2H4 | 74-85-1 | 0-10 ppm |
| Ethylene | C2H4 | 74-85-1 | 0-200 ppm |
| Ethylene | C2H4 | 74-85-1 | 0-1500 ppm |
| Ethylene | C2H4 | 74-85-1 | 0-100 % LEL |
| Ethylene oxide | C2H4O | 75-21-8 | 0-10 ppm |
| Ethylene oxide | C2H4O | 75-21-8 | 0-100 ppm |
| Ethylene oxide | C2H4O | 75-21-8 | 0-1000 ppm |
| Ethylene oxide | C2H4O | 75-21-8 | 0-500 ppm |
| Ethylene oxide | C2H4O | 75-21-8 | 0-100 % LEL |
| Formaldehyde | CH2O | 50-00-0 | 0-10 ppm |
| Formaldehyde | CH2O | 50-00-0 | 0-50 ppm |
| Formaldehyde | CH2O | 50-00-0 | 0-1000 ppm |
| Hexane (Petrol) | C6H14 | 110-54-3 | 0-100 % LEL |
| Hydrogen | H2 | 1333-74-0 | 0-100 % LEL |
| Hydrogen | H2 | 1333-74-0 | 0-1000 ppm |
| Hydrogen | H2 | 1333-74-0 | 0-4000 ppm |
| Hydrogen | H2 | 1333-74-0 | 0-40000 ppm |
| Hydrogen bromide | HBr | 10035-10-6 | 0-20 ppm |
| Hydrogen bromide | HBr | 10035-10-6 | 0-200 ppm |
| Hydrogen cyanide | HCN | 74-90-8 | 0-50 ppm |
| Hydrogen fluoride | HF | 7664-39-3 | 0-10 ppm |
| Hydrogen chloride | HCl | 7647-01-0 | 0-20 ppm |
| Hydrogen chloride | HCl | 7647-01-0 | 0-200 ppm |

| Gas | Formula | Cas | Measuring range |
|--|---------|------------|--|
| Hydrogen peroxide | H2O2 | 7722-84-1 | 0-100 ppm |
| Hydrogen peroxide | H2O2 | 7722-84-1 | 0-500 ppm |
| Hydrogen sulfide | H2S | 7783-06-4 | 0-50 ppm |
| Hydrogen sulfide | H2S | 7783-06-4 | 0-500 ppm |
| Hydrogen sulfide | H2S | 7783-06-4 | 0-100 ppm |
| Hydrogen sulfide | H2S | 7783-06-4 | 0-2000 ppm |
| Chlorine | CL2 | 7782-50-5 | 0-20 ppm |
| Chlorine | CL2 | 7782-50-5 | 0-200 ppm |
| Chlorine dioxide | ClO2 | 10049-04-4 | 0-50 ppm |
| Methane | CH4 | 74-82-8 | 0-100 % LEL |
| Nitric oxide | NO | 10102-43-9 | 0-25 ppm |
| Nitric oxide | NO | 10102-43-9 | 0-250 ppm |
| Nitric oxide | NO | 10102-43-9 | 0-1000 ppm |
| Nitrogen dioxide | NO2 | 10102-44-0 | 0-20 ppm |
| Nitrogen dioxide | NO2 | 10102-44-0 | 0-100 ppm |
| Nitrogen dioxide | NO2 | 10102-44-0 | 0-500 ppm |
| Nitrous oxide | N2O | 10024-97-2 | 0-1 % vol. |
| Organic acids | RCOOH | - | 0-100 ppm |
| Other flammable and combustible gases and vapors | HC | - | 0-100 % LEL |
| Oxygen | O2 | 17778-80-2 | 0-1 % |
| Oxygen | O2 | 17778-80-2 | 0-30 % |
| Ozone | O3 | 10028-15-6 | 0-5 ppm |
| Ozone | O3 | 10028-15-6 | 0-100 ppm |
| Pentane | C5H12 | 109-66-0 | 0-100 % LEL |
| Phosphine | PH3 | 7803-51-2 | 0-5 ppm |
| Phosphine | PH3 | 7803-51-2 | 0-20 ppm |
| Phosphine | PH3 | 7803-51-2 | 0-200 ppm |
| Phosphine | PH3 | 7803-51-2 | 0-2000 ppm |
| Propylene | C3H6 | 115-07-1 | 0-100 % LEL |
| Refrigerant | R | - | 0-2000 ppm |
| Refrigerant | HFO | 754-12-1 | 0-2000 ppm |
| Silane | SiH4 | 7803-62-5 | 0-1 ppm |
| Sulfur dioxide | SO2 | 7446-09-5 | 0-20 ppm |
| Sulfur dioxide | SO2 | 7446-09-5 | 0-200 ppm |
| Sulfur dioxide | SO2 | 7446-09-5 | 0-2000 ppm |
| Sulfur dioxide | SO2 | 7446-09-5 | 0-100 ppm |
| Sulfur dioxide | SO2 | 7446-09-5 | 0-1000 ppm |
| Sulfur dioxide | SO2 | 7446-09-5 | 0-10000 ppm |
| Volatile organic compounds | VOC | - | *0-20 ppm (el. sensor)* |
| Volatile organic compounds | VOC | - | *0-3000 ppm - according to gas (PID sensor)* |