



History



**GAS AND FLAME DETECTION**  
DETEKCE PLYNU A PLAMENE



# DEGA NB III LCD

## GAS DETECTOR

- Designed for simple applications
- Power supply 24 VDC
- 2 x output relays
- Detection of toxic and explosive gases, including oxygen
- IP 54 protection



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



# Gas detector **DEGA NB III LCD**

The DEGA NB III LCD gas detector is designed for simple applications where the concentration of dangerous explosives or toxic substances can occur.

## TECHNICAL DETAILS:

Power voltage:	24 VDC
Output:	2 x switching relays
Sensor type:	catalytic, electrochemical, infrared, photoionization (PID), semiconductor
Degree of protection by cover:	IP 54
Power consumption:	1.2 W
Dimensions:	100 x 110 x 40 mm (WxHxD)
Weight:	0.3 kg
Relative humidity of the surrounding air:	0-95% RH
Working environment:	BE1 – non-explosive environment

## NOMENCLATURE:

### DEGA NBx-yL III

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

## MODULE:



DEGA NB III  
Relay Module  
(Internal Z-relay, 250  
V/10 A)



The detector is not intended for detection in industrial and commercial areas requiring ATEX certification or in areas with an "Ex" explosion hazard. We recommend DEGA NS II LCD RE (zone 2) or DEGA NS III LCD RE (zone 1) for these areas.

## ACCESSORIES:



DEGA NB III LCD  
stainless steel cover



DEGA NB III LCD  
mechanical cover



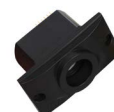
DEGA WATER CAP  
splash guard



DEGA FUNNEL  
funnel



DEGA GAS INLET  
calibration  
attachment



DEGA NB III SU  
replacement sensor  
unit



Cable Glades PG9

## ■ 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)"