

HB Products – dedicated to optimal solutions for level measurement and control of oil and refrigerants.

HB Products is a development-oriented company, which specializes in the development and production of sensors for industrial refrigeration systems. Apart from expertise within oil and refrigerant control, we have great know-how in the design and optimization of industrial refrigeration systems. This knowledge enables us to develop and produce the best sensors!

Since its start more than 25 years ago, HB Products has attained a strong global position. This is the result of our ability to think in terms of new technological solutions, create

For further info and guidance please visit our homepage

www.hbproducts.dk



Quick guide

HBGS – Gas Leakage Sensor for NH3 and CO2



Functionality:

The HBGS sensor is made to detect gas leakage in refrigeration rooms or vent lines from refrigeration rooms. The sensor comes in three variations two for NH3 and one for CO2. The measuring heads and settings are different, but the rest is identical. If the leakage sensor is to be used in a different way, prior approval must be obtained from HB Products.

Download complete manual:

For further information please download the instruction manual from our homepage: www.hbproducts.dk.

Caution:

Only qualified personnel should work with the product. The technician must be aware of the consequences of an improperly installed sensor and must be committed to adhering to the applicable local legislation.

Mechanical installation



Mechanical specifications:

Gas	Measuring range	Factory alarm settings (can be configured*)
NH3	0-100 ppm	25/50/75 ppm
NH3	0-300 ppm	60/150/240 ppm
NH3	0-1000 ppm	250/500/750 ppm
NH3	0-5000 ppm	1000/2500/4000 ppm
CO2	0-10000 ppm	2000/5000/7500 ppm

Ambient temperature: -30...+50°C

Humidity: 0...95 %

Material: PC (Plastic)

Cabinet size: 140x82x59 mm

*Configuration: With PC and HB configuration tool

Part no. Complete: HBGS-NH3 and HBGS-CO2

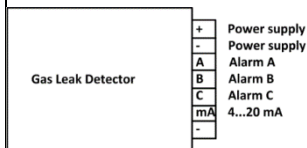
Part no. Sensor Part: HBGS-NH3-Unit and HBGS-CO2-Unit

Part no. Service kit: HBGS -Service Kit (same for both refrigerants)

Electrical installation



Ferrite clamps must be mounted on the cables to reduce electromagnetic interference.



Alarm output can control the siren directly.



Electrical specifications:

Enclosure: IP20

Analog Output: 4...20 mA

Analog Load: 500 ohm

Digital Output: 3 x PNP, 0,5 A, NO/NC (Default NO)

Voltage supply: 24 V DC – Max load 1.7 A

Indication: 3 x alarm levels and 1 x power (green)

Reset of alarms: By push button "R"

Configuration: With PC and HB configuration tool

Special adaptor and USB Cable is needed to change Configuration