

# Ammonia

## Detectors with relay output



### KEY FEATURES

- **Microprocessor controlled unit with LED status indication**
- **Three alarm levels**
- **Easy to change alarm levels (with use of service tool SA200)**
- **Selectable alarm time delay**
- **Manual / automatic alarm reset**
- **Built-in service mode, self-test and "Fail-safe" function**
- **Three SPDT relay outputs (230V / 5A)**
- **Temperature range -40°C..+50°C**
- **Long time stable and 8-10 years lifetime**
- **Power supply 230V AC or 12..24V AC/DC**

### - Ammonia gas detector

#### General:

Detectors for Ammonia gas.  
To be used in refrigeration plant rooms, cold or freezing rooms or any other location where refrigerant gas is used or stored.

Models:

- Room mounting (IP21 or IP54)
- Vent line from pressure relief valves
- Duct mounting
- With Remote sensor

The detectors can be used as stand alone, connected to a monitoring unit or other monitoring systems.

#### Measuring ranges and alarm levels:

Relevant alarm levels depend on application.  
Detectors supplied as standard for specified gas with preset alarm levels.

#### Standards and regulations:






Check local standards and regulations as hygienic max values etc.

Be sure wiring is done according to local electrical code requirements.

#### Technical Data:

Gas type:	Ammonia, NH <sub>3</sub>
Detection principle:	Semiconductor
Range, -1000: -4000:	0–1000 ppm 0–4000 ppm
Accuracy:	+/- 15%
Indications: alarms	Power/Active LED and three LED.
Alarm levels:	3 adjustable; A, B and C-alarm.
Outputs (relays):	3 potential free contacts, SPDT A, B, C-alarm max 230V / 5A.
Power (consumption):	230V AC, max 2VA, 50/60Hz or 12..24V AC/DC, 2VA
Ambient temperature:	-40°C to +50°C
Humidity:	0 to 95% Rh (none condensing)
Material:	PC
Enclosure:	IP21 or IP54
Cable glands:	4 x M16
Dimensions:	see other side
Weight (kg):	24V / 230V model
GD	0,31 / 0,42
GS	0,34 / 0,45
GR	0,57 / 0,68
GSR	0,74 / 0,85
GK	0,51 / 0,62

# Product summary

Order code	Model	Description		
	<b>GD</b>	Room mounting 160x80x60 mm IP21		
37-250	GD24-NH3-1000	0-1000 ppm, 12..24V AC/DC		
37-252	GD24-NH3-4000	0-4000 ppm, 12..24V AC/DC		
37-255	GD230-NH3-1000	0-1000 ppm, 230V AC		
37-257	GD230-NH3-4000	0-4000 ppm, 230V AC		
	<b>GS</b>	Splash proof, room mounting 160x130x60mm IP54		
37-450	GS24-NH3-1000	0-1000 ppm, 12..24V AC/DC		
37-452	GS24-NH3-4000	0-4000 ppm, 12..24V AC/DC		
37-455	GS230-NH3-1000	0-1000 ppm, 230V AC		
37-457	GS230-NH3-4000	0-4000 ppm, 230V AC		
	<b>GSR</b>	Splash proof, room mounting with remote sensor, 5m cable 160x130x60mm IP54		
37-950	GSR24-NH3-1000	0-1000 ppm, 12..24V AC/DC		
37-952	GSR24-NH3-4000	0-4000 ppm, 12..24V AC/DC		
37-955	GSR230-NH3-1000	0-1000 ppm, 230V AC		
37-957	GSR230-NH3-4000	0-4000 ppm, 230V AC		
	<b>GK</b>	Detector for duct mounting with 1,5m cable 160x80x60 mm IP54		
37-850	GK24-NH3-1000	0-1000 ppm, 12..24V AC/DC		
37-852	GK24-NH3-4000	0-4000 ppm, 12..24V AC/DC		
37-855	GK230-NH3-1000	0-1000 ppm, 230V AC		
37-857	GK230-NH3-4000	0-4000 ppm, 230V AC		
	<b>GR</b>	Detector specially designed for vent lines from pressure relief valves in refrigeration plants. Standard cable length 1,5m. IP54		
37-652	GR24-NH3-4000	0-4000 ppm, 12..24V AC/DC		
37-657	GR230-NH3-4000	0-4000 ppm, 230V AC		

*Preset alarm levels:*

Model -1000: 150/300/500 ppm  
 Model -4000: 150/500/3000 ppm