



## Geopal GPU-45A



Geopal Control and Power Unit for gas detectors is a part of Geopal's gas alarm monitors for detection of gases in a range of applications.

The system offers a user-friendly interface, based on 5,7" TFT touch screen for easy overview and configuration.

The output relays can facilitate a range of external functions such as:

- Controlling ventilation systems
- Basic audio or visual alarms
- Control of solenoid valves

Geopal GPU-45A standard features:

- Service function mode for easy and safe calibration and maintenance
- Modbus RTU (RS-485 2-wire)  
*(Optional: Modbus TCP, LONbus, Profibus)*
- Digital inputs for call points
- Built in event log

Custom functions and features are available upon request.



**geopal** SYSTEM A/S®

Skelstedet 10B - DK-2950 Vedbæk, Danmark

Tel. +45 45 67 06 00

www.geopal.dk · [info@geopal.dk](mailto:info@geopal.dk)

EA17505KE - Specification can be changed without notice



DIC444QMS



DBI reg.no. 233.301



SP14ATEX7159

# GPU-45A Technical Data

## System Overview

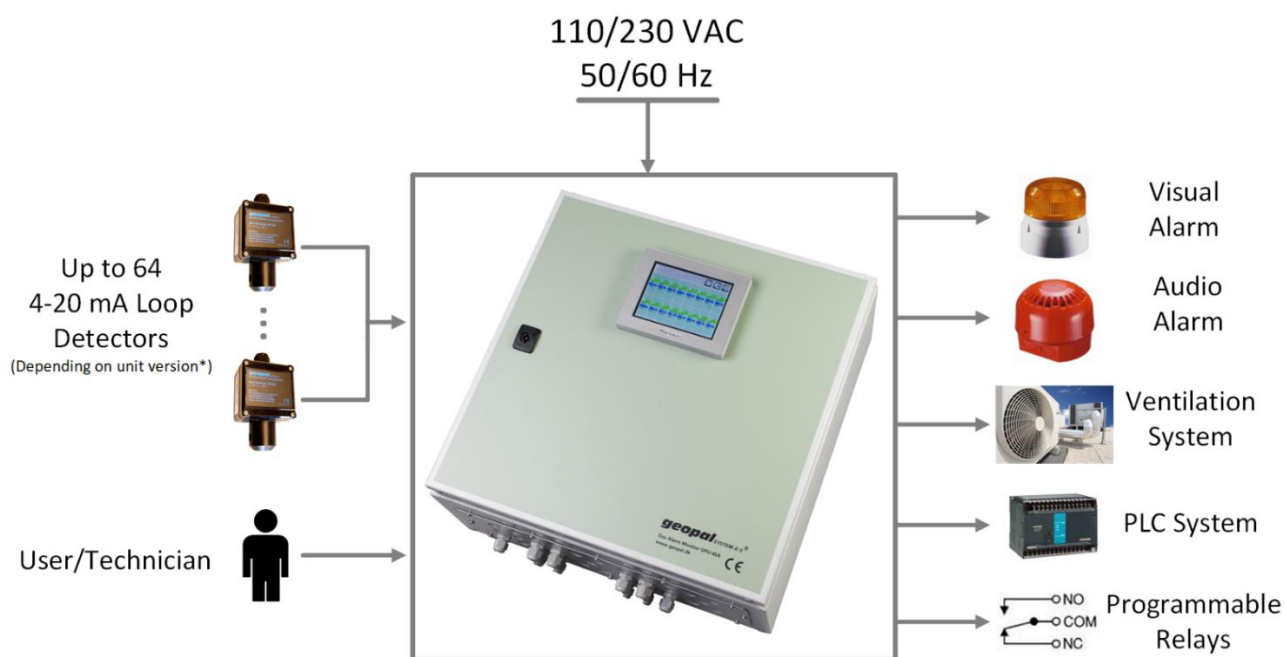


Figure 1 Overview of inputs and outputs of the GPU-45A

\*Available in four standard versions:

GPU-45A8	Up to 8 4-20 mA inputs
GPU-45A16	Up to 16 4-20 mA inputs
GPU-45A32	Up to 32 4-20 mA inputs
GPU-45B	Up to 32 inputs (Modbus)

# GPU-45A

## Technical Data

### GPU-45A

Supply voltage	110 - 240VAC 50/60 Hz		
Available gases	Depends on the detector		
Response time T <sub>90</sub> , to gases	See detector data sheet		
Calibration	Performed in the detectors		
Detector Input	4-20mA input signal (active or passive) / Modbus		
Detector supply	24VDC, 250mA (per detector)		
Relay Outputs	10/26 programmable relays, with options Low and High alarm level and detector fault. Max load is 230VAC 6A		
Communication Outputs	Standard: Modbus RTU (RS-485 2-wire) Optional: MODBUS TCP, LONbus, Profibus		
Cable between detector and alarm monitor	2-4 conductors 0,75/1 or 1.5 mm <sup>2</sup> shielded		
Cabinet	Steel (standard)		
Front panels	Dull green label with print		
Indicators	Green, red and yellow indicators in LCD screen.		
IP rating	IP 65 (IEC 6052)		
Mechanical dimensions	GPU-45A8	(HxWxD)	500x500x210
	GPU-45A16	(HxWxD)	500x500x210
	GPU-45A32	(HxWxD)	800x600x300
	GPU-45B Modbus	(HxWxD)	500x500x210
Operating conditions:	Temperature	-10 °C to +50 °C	
	Humidity	0 %RH to 95 %RH	
	Pressure	1013 mbar ±10%	
Approvals ( <i>Directives and Standards</i> )	Electromagnetic Compatibility Directive (EMC) 2014/30/EU Low Voltage Directive 2014/35/EC EN 60 204-1; EN 61 010-1; EN 61 326-1 (2013); EN 61 000-6-2 (2005); EN 61 000-6-3 (2012); EN 50 270 (2015)		
Quality	ISO 9001:2015		
Standard versions available	8 inputs (GPU-45A8) (4-20 mA) 16 inputs (GPU-45A16) (4-20 mA) 32 inputs (GPU-45A32) (4-20 mA) 32 inputs (GPU-45B) (Modbus)		
UPS	Available as option		
Configurable settings for each input	<ul style="list-style-type: none"> <li>- Gas Name or tag name</li> <li>- Gas unit</li> <li>- Measuring range</li> <li>- Alarm 1 level, selectable rising or falling alarm</li> <li>- Alarm 2 level, selectable rising or falling alarm</li> <li>- Fault level</li> </ul> Assignment to output relays		
Suitable detectors	GP-SA GP-SA-V GP-CO GP-CO2 GP-CO2-V GP-ELK GP-O2		