

# GPU-45A

## Geopal GPU-45A Control and Power Unit

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

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

GPU-45R 1-8 and 1-16: 5,7"

GPU-45R 1-32: 7"

GPU-45R 1-64: 12"

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

- Controlling ventilation systems
- Basic audio or visual alarms

## Features

Geopal GPU-45A standard features:

- Service function mode for easy and safe calibration and maintenance
- Modbus RTU (RS-485 2-wire) (Optional: Modbus TCP)
- Digital inputs for call points
- Built in event log
- Remote screens
- Programmable output relays

Custom functions and features are available upon request.

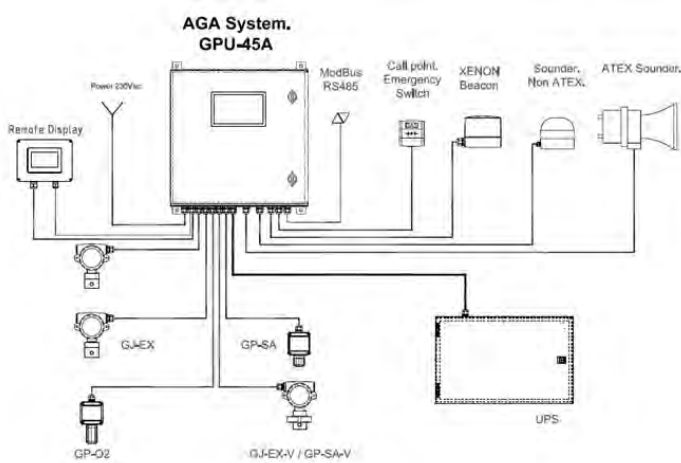


Figure 1 System Overview of inputs and outputs of the GPU-45A

Available in the following standard versions:

GPU-45A8	Up to 8 detector inputs v/mA
GPU-45A16	Up to 16 detector inputs v/mA
GPU-45A32	Up to 32 detector inputs v/mA
GPU-45A64	Up to 64 detector inputs v/mA
GPU-45A Modbus	Up to 64 detector inputs Modbus



Remote Screen

**geopal**<sup>®</sup>

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EA 175050E



PENDING



ITS-123ATEXQ36745



DBI reg. no 233.301



DIC444QMS

# GPU-45A

Supply voltage	110 - 240VAC 50/60 Hz		
Power consumption	Depends on the detector		
Available gases	Depends on the detector		
Response timeT90	See detector data sheet		
Calibration	Performed in the detectors or monitor GPU-45A		
Detector Input	4-20mA input signal (active or passive)/ 0,8-4 V / Modbus		
Detector supply	24VDC, 250mA/ 5V (per detector)		
Relay Outputs	10/26/52 programmable relays Max load is 230VAC 6A		
Communication Outputs	Standard: Modbus RTU (RS-485 2-wire) Optional: MODBUS TCP		
Cable between detector and alarm monitor	2-4 conductors 0,75/1 or 1.5 mm <sup>2</sup> shielded (depending on detector)		
Cabinet	Steel (standard)		
Indicators	Green, red and yellow indicators in LCD screen		
IP rating	IP 65 (IEC 6052)		
Mechanical dimensions	GPU-45A8	(HxWxD)	400x400x210
	GPU-45A8 UPS	(HxWxD)	500x500x210
	GPU-45A16 std or UPS	(HxWxD)	500x500x210
	GPU-45A32 std or UPS	(HxWxD)	800x600x300
	GPU-45A64 std or UPS	(HxWxD)	800x600x300
	GPU-45A Modbus	(HxWxD)	400x400x210
Operating conditions	Temperature	-10 °C to +50 °C	
	Humidity	0 %RH to 95 %RH	
	Pressure	1013 mbar ±10%	
Suitable detectors	GP-SA, GP-SA-V, GP-SB, GP-CO, GP-CO2, GP-CO2-V, GP-ELK, GP-O2 GJ-EX, GJ-EX-V, GJ-OX, GP-NOVA		
UPS	Available as option		
<b>GPU-Remote Screen</b>			
Supply voltage	24 V from GPU-45A (standard) / 110 - 240VAC 50/60 Hz		
Communication to GPU-45A	MODBUS TCP		
IP rating	IP 65 (IEC 6052)		
Dimensions	GPU-R8	4,3" screen	(HxWxD) 200x150x80
	GPU-R16	4,3" screen	(HxWxD) 200x150x80
	GPU-R32	7" screen	(HxWxD) 400x300x210
	GPU-R64	12" screen	(HxWxD) 500x400x200

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## Approvals

Approvals (Directives and Standards)

Electromagnetic Compatibility Directive (EMC) 2014/30/EU  
Low Voltage Directive 2014/35/EC  
EN 61 000-6-2 (2019); EN 61 000-6-4 (2019);  
EN 50 270 (2015)

Quality

ISO 9001:2015



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