AGDS-32

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Addressable Gas Detection System
(Family - Gas)

Product Description:

- Vighnaharta AGDS-32 channel addressable gas detection system is designed to detect gas leakage in to building or area with the help of multiple sensors.

- The system is kept at the user premises. System can read inputs from wired sensors.

- The AGDS-32, gas detection system consists of one control panel and up to 32 addressable gas detectors and signal output devices

- This networked system creates a plant-wide, distributed safety system. 2 wire bus structure enables easy installation.

- When the gas leakage reaches or exceeds the set point, the control panel gives audio and visible warning. It can also drive corresponding control output to switch ON ventilation and switch-off the control valve to avoid accident in advance.

- AGDS-32 system has provision for installing battery for providing typical backup time of about 7-8 hours. User can configure various parameters like zone names, date, and time with help of keypad.

Application

- LPG/PNG/CNG gas storage stations

- Plant locations

- Hotel kitchens, Industrial canteens

- Gas filling stations

- LPG bullets and banks

- Laboratories

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Product features:

- System can have 32 wired gas detectors
- 16*2 back light LCD display
- Optional communication interfaces
- Capacitive touch pad with 20 keys
- Auxiliary relay output is providing for interface other system
- Panel has provided optional ethernet /GSM/GPRS connectivity as well as CMS monitoring
- AGDS-32 panel has capacitive touch pad with 20 keys
- AGDS-32 panel can display concentration of gas in %LEL when gas leak occurs
- Siren output is available (110db)
- 2 wire bus structure
- 100 event logs
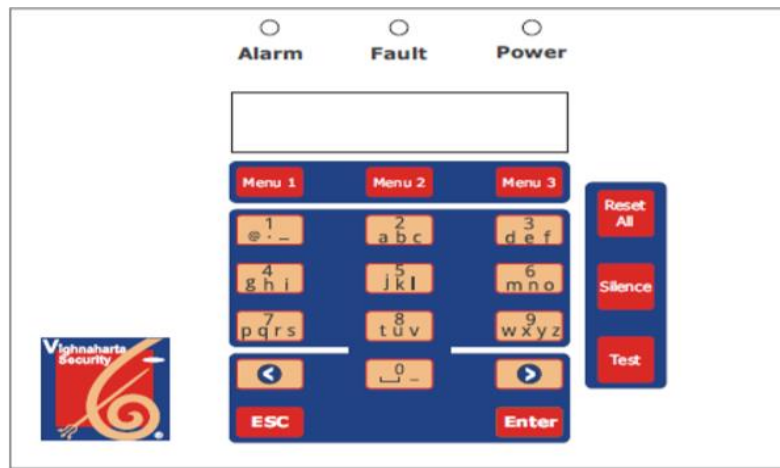- Up to 8 hours battery backup (without detector)

Technical specifications:

Electrical specifications	
Power supply	1) 230 VAC + / - 10 %, 50 Hz. 2) 12 V DC (6 V, 4.5 Ah x 2) rechargeable battery backup.
Power consumption	Less than 2 w
Cable	4 core 1.5mm2 twisted FRLS cable
Battery backup	Up to 7-8Hr (12 VDC / 4.5Ah)
Environmental specifications	
Operating temperature	-20 ° to +55° C
Storage temperature	-10 ° to +60 ° C
Humidity	5 to 95 % Rh
Mechanical specifications	
Cabinet material	MS- powder coated: RAL 7035 Texture- thickness 1mm
Cable entry	Double compression cable gland (Ex-Proof), ¾" ET-Type
Dimensions	340 x 270 x 90 mm (L x H x M)
Mounting	Wall mounting/ Stand mounting
Weight	Approx. 2 Kg. (without battery)
Input and output signal	
Input signal	1. 32 zone addressable GAS detection inputs (RS-485) 2. Touch keypad with 20 keys

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Output signal	1) 16*2 LCD display
	2) Audio buzzer indication for various status
	3) 1 Siren output
	4) 1 auxiliary relay output
	5) Optional O/p RS-485, RS-232, GSM auto dialer

LED indications

LED Indicators	
Alarm	RED LED indicates alarm condition. When system receives alarm condition, RED LED will glow & buzzer will be ON. During alarm conditions, siren will beep till timeout. **Note**: User can change siren on time.
Fault	ORANGE LED indicates fault / trouble related to zones or system. Then buzzer will become ON For example, fault related to the system - NO siren
Power	GREEN LED indicates that the system is ON
LCD Display	16x2 LCD shows the status of the system, configurable menus and settings.
Touch Keypad	
ESC	Exit from the current action and opens the previous menu. For example, if you are in zone configuration, you can reach to Select Options menu
Enter	Enters the data into system
Menu1	Menu key. Menu-1 allows setting date, time and zone configuration
Menu2	Menu key. Menu-2 allows seeing status of gas detectors and allow to Reset any Gas Detector
Menu3	Menu key. Menu-3 allows to see Event Logs
Alphanumeric keys	Combinations of alphanumeric keys (10 keys) allow entering various text messages as well as settings, passwords and so on. **Note**: For editing the data, user has to first go to the particular letter. Press it then cursor will move to next digit. To Backward or Forward the cursor, use < or > keys respectively

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Prerequisites	1. The convenient location for mounting the system must be finalized. 2. Number of gas detectors to be configured through panel. (ACTIVE/BYPASS MODE) *i.e. AGDS-32 will only monitor the status of gas detector which are in active MODE and not in BYPASS MODE.*
Accessories with unit	
	• AGDS-32 panel unit • User manual • Resistors • Screw & rawal plug
Warranty	
	12 months against manufacturing defects only.

Models and variants	
	AGDS-96
Abbreviations	
AGDS-32	Addressable gas detection system - 32 channel panel They work with addressable gas detectors: TS12CLR-485, TS12CLR-EX-LEL, TS21I-CAT-HC

Datasheet Version with Date(V.2 Oct2020)

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