Don't Be
Safety Blinded,
Be Safety Minded.

GAS JANITOR™

BHOPAL GAS TRAGEDY
2 - 3 DECEMBER, 1984

Bhopal Remembers Gas Leak Tragedy

By BHARAT DESAI

BHOPAL, India (AP) – Children burned effigies of Prime Minister Rajiv Gandhi and the former chairman of Union Carbide Corp during a protest yesterday marking the third anniversary of the Bhopal gas disaster.

Bhopal, a city of about 1 million people, was virtually shut down by a strike Government offices, schools and most shops were closed

About 200 children, most between the ages of 5 and 10, marched to the closed plant on the northern outskirts of the city and set the two papier-mache figures fire.

Police, however, required the children remove a sign identifing one of the

Slogans reading "No Settlement" were newly painted on the factory walls V C Shukla, a dissident member of Gandhi's Congress Party, told the crowd the government was playing a "dubious role" by considering an out-of-court settlement with Carbide.

Lawyers for Carbide and the government were reported several weeks ago to be close to a $500 million settlement, but no final agreement was reached

"A settlement cannot rule out kickbacks," Shukla said There have been allegations that members of Gandhi's party may have received kickbacks in defense deals.

Alok Pratap Singh, leader of a lobby

MAJOR GAS LEAKS IN INDIA IN THE PAST

	When did it happen	Where did it happen	What caused the disaster	Number of deaths/casualties
Bhopal gas tragedy	Dec 2-3, 1984	Union Carbide India pesticide plant, Bhopal, Madhya Pradesh	Methyl isocyanate (MIC) gas leak	Nearly 5,000 were killed and more than 5,00,000 were affected
GAIL pipeline blast	June 27, 2014	GAIL plant, Nagaram, East Godavari, AP	Underground natural gas pipeline rupture	Over 18 people were killed, over 40 injured
Bhilai Steel Plant gas leak	June 12, 2014	Bhilai Steel plant, Durg, Chhattisgarh	Methane gas leak	6 people were killed, over 40 were injured
Tughlakabad gas leak	May 6, 2017	Container depot, Tughlakabad, S-E Delhi	Chemical gas leakage from a container truck	Over 400 school children were hospitalised
Kanpur ammonia gas leak	March 15, 2017	A cold storage facility at Shivrajpur, Kanpur, Uttar Pradesh	Ammonia gas leak	5 people were killed, 9 injured
Belur chlorine gas leak	May 16, 2017	A water treatment plant at Gandehalli in Belur, South Karnataka	Chlorine gas leak	More than 10 people fell sick
Bhilai Steel Plant Blast	Oct 9, 2018	Bhilai Steel Plant, Durg, Chhattisgarh	Explosion in a gas pipeline connected to the coke-oven section	9 people were killed, 14 were injured

WHAT HAPPEND IN VISAKHAPATNAM

Compiled by Annapurani V

WHAT LEAKED	WHAT IS IT	HOW DANGEROUS IS IT	WHAT IS IT USED FOR
Styrene	It is also called ethenylbenzene, vinylbenzene and phenylethene. It is an organic compound derived from benzene	Sustained exposure affects the central nervous system Studies have shown that it causes cancer	Manufacturing polystyrene plastics, fibreglass, rubber and latex

What's Inside

GAS JANITOR

Addict Automation India Pvt. Ltd. introduced in 2017 with brand name **GAS JANITOR**. We are manufacturer of different type of gas leak detectors, control panels and fire alarm system. In the field of safety and security products company has taken the responsibility of gas leak detection and alarm system by using Hi- Tech superior technologies.

Our offered products are highly recognized among our clients for their convenient installation, rigid structure, smooth operation, abrasion resistance and highly durable.

We have a well sprawled and advanced manufacturing unit which enable us to produce the best-in-class products and structures which are unmatched in the market. Owing to the premium quality products and ethical management, we have mustered a huge client base for us. Entire business operations are led by our best qualified team with rich experience and sharp vision.

Vision

Our Vision is to be a Globally recognised trustworthy leader in Automation & Safety, Security, Surveillance Products & Solutions. We shall be among the top five preferred vendors.

Mission

Our primary goal is to make the lives of citizens safe & secure. We consistently innovate and provide dependable products & solutions to our End Customers. Our technology integrates physical products with software & internet to provide a high level of user experience. We strive to exceed customer expectations.

Making in India for the World

We are proud of our solutions being cantered around our in-house created hardware and software technologies. We have worked hard to build products that match world-class quality and standards. Our products have all the trusted national certifications.

Industries we serve

Hospitality Industry

Industrial Units

Pharmaceutical Industry

Hospital Industry

Laboratories Unit

Petro Chemical Industry

Shopping Mall

Offices

Cold Storage

Industrial Flameproof Gas Leakage Detector
[Model No. GJ0417]

The **GJ0417** is a wall mounted or fixed type gas leakage detector. This device senses the gas leakage and gives LED Indication and sends signal to control panel also. Detectors and control panel connected with three core cables. And it is installed near gas leakage points. This device is also compatible to operate solenoid valve, Hooter, Siren, Fire Panel and signal to BMS.

Product Features:

- **PESO / CCOE** tested Flameproof Enclosures
- Four wire communication two for power and remains two for Output
- Protection against wrong wire connection and over range
- MCU Based
- Fast Response
- Simple installation and maintenance
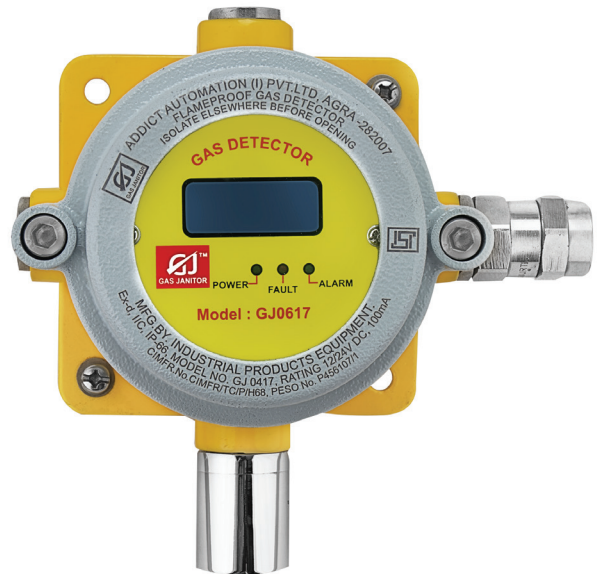- **Flamepoof & Weatherproof enclosure [IP66]**

Technical Features:

Sr. No.	Detecting Gas	Measurement Range	Working Principle	Operating Voltage	Default Alarm Level	Output	Display Type
1	LPG	Up to 25% or 100% LEL	MOS/CAT	24 VDC	10% LEL	SPDT	LED INDIACTIONS
2	METHANE	Up to 25% or 100% LEL	MOS/CAT	24 VDC	5% LEL	SPDT	LED INDIACTIONS
3	PROPANE	Up to 25% or 100% LEL	MOS/CAT	24 VDC	10% LEL	SPDT	LED INDIACTIONS
4	BUTANE	Up to 25% or 100% LEL	MOS/CAT	24 VDC	10% LEL	SPDT	LED INDIACTIONS
5	HYDROGEN	30 to 300 PPM 0 to 100 % LEL	MOS/CAT	24 VDC	100 PPM	SPDT	LED INDIACTIONS
6	ATHELENE	Up to 25% or 100% LEL	MOS/CAT	24 VDC	10% LEL	SPDT	LED INDIACTIONS
7	ACETYLENE	Up to 25% or 100% LEL	MOS/CAT	24 VDC	10% LEL	SPDT	LED INDIACTIONS
8	OXYGEN (O2)	0 to 30% /Vol	EC	24 VDC	< 19.5%/Vol	SPDT	LED INDIACTIONS
9	AMMONIA (NH3)	0 to 100 PPM 0 to 200 PPM 0 to 1000 PPM Up to 300 PPM	EC EC EC MOS	24 VDC 24 VDC 24 VDC 24 VDC	25 PPM	SPDT	LED INDIACTIONS
10	CO	0 to 800 PPM 0 to 1000 PPM	EC EC	24 VDC 24 VDC	10% LEL 10 PPM	SPDT	LED INDIACTIONS

Digital Type Industrial Flameproof Gas Leakage Detector
[Model No. GJ0617]

The **GJ0617** is a wall mounted or fixed type gas leakage detector. This device senses the gas leakage and shows the leakage concentration on LCD and sends signal to control panel also. Detectors and control panel connected with three core cables. And it is installed near gas leakage points. This complete system is also compatible to operate solenoid valve, Hooter, Siren, Fire Panel and signal to BMS.

Product Features:

- **PESO / CCOE** tested Flameproof Enclosures
- Three wire communication between DETECTORS & CONTROL PANEL
- Protection against wrong wire connection and over range
- MCU Based
- Fast Response
- Simple installation and maintenance
- **Flamepoof & Weatherproof enclosure [IP66]**

Technical Features:

Sr. No.	Detecting Gas	Measurement Range	Working Principle	Operating Voltage	Default Alarm Level	Output	Display Type
1	LPG	Up to 25% or 100% LEL	MOS/CAT	24 VDC	10% LEL	SPDT	LCD DISPLAY
2	METHANE	Up to 25% or 100% LEL	MOS/CAT	24 VDC	5% LEL	SPDT	LCD DISPLAY
3	PROPANE	Up to 25% or 100% LEL	MOS/CAT	24 VDC	10% LEL	SPDT	LCD DISPLAY
4	BUTANE	Up to 25% or 100% LEL	MOS/CAT	24 VDC	10% LEL	SPDT	LCD DISPLAY
5	HYDROGEN	30 to 300 PPM 0 to 100% LEL	MOS/CAT	24 VDC	100 PPM	SPDT	LCD DISPLAY
6	ATHELENE	Up to 25% or 100% LEL	MOS/CAT	24 VDC	10% LEL	SPDT	LCD DISPLAY
7	ACETYLENE	Up to 25% or 100% LEL	MOS/CAT	24 VDC	10% LEL	SPDT	LCD DISPLAY
8	OXYGEN (O2)	0 to 30% /Vol	EC	24 VDC	< 19.5%/Vol	SPDT	LCD DISPLAY
9	AMMONIA (NH3)	0 to 100 PPM 0 to 200 PPM 0 to 1000 PPM Up to 300 PPM	EC EC EC MOS	24 VDC 24 VDC 24 VDC 24 VDC	25 PPM	SPDT	LCD DISPLAY
10	CO	0 to 800 PPM 0 to 1000 PPM	EC EC	24 VDC 24 VDC	10% LEL 10 PPM	SPDT	LCD DISPLAY

Industrial Flameproof Gas Leakage Detector
[Model No. GJ0721]

The **GJ0721** is a wall mounted or fixed type gas leakage detector. This device senses the gas leakage and sends signal to control panel. Detectors and control panel connected with three core cables. And it is installed near gas leakage points. This device is also compatible to operate solenoid valve, Hooter, Siren, Fire Panel and signal to BMS.

Product Features:

- **PESO / CCOE** tested Flameproof Enclosures
- Three wire communication between DETECTORS & CONTROL PANEL
- Protection against wrong wire connection and over range
- MCU Based
- Fast Response
- Simple installation and maintenance
- **Flamepoof & Weatherproof enclosure [IP66]**

Technical Features:

Sr. No.	Detecting Gas	Measurement Range	Working Principle	Operating Voltage	Default Alarm Level	Output	Display Type
1	LPG	Up to 25% or 100% LEL	MOS/CAT	24 VDC	10% LEL	SPDT	NA
2	METHANE	Up to 25% or 100% LEL	MOS/CAT	24 VDC	5% LEL	SPDT	NA
3	PROPANE	Up to 25% or 100% LEL	MOS/CAT	24 VDC	10% LEL	SPDT	NA
4	BUTANE	Up to 25% or 100% LEL	MOS/CAT	24 VDC	10% LEL	SPDT	NA
5	HYDROGEN	30 to 300 PPM 0 to 100% LEL	MOS/CAT	24 VDC	100 PPM	SPDT	NA
6	ATHELENE	Up to 25% or 100% LEL	MOS/CAT	24 VDC	10% LEL	SPDT	NA
7	ACETYLENE	Up to 25% or 100% LEL	MOS/CAT	24 VDC	10% LEL	SPDT	NA
8	OXYGEN (O2)	0 to 30% /Vol	EC	24 VDC	< 19.5%/Vol	SPDT	NA
9	AMMONIA (NH3)	0 to 100 PPM 0 to 200 PPM 0 to 1000 PPM Up to 300 PPM	EC EC EC MOS	24 VDC 24 VDC 24 VDC 24 VDC	25 PPM	SPDT	NA
10	CO	0 to 800 PPM 0 to 1000 PPM	EC EC	24 VDC 24 VDC	10% LEL 10 PPM	SPDT	NA

Domestic
Gas Leakage Detector
[Model No. GJ0517]

The **GJ0517** is a wall mounted or fixed type gas leakage detector. This device senses the gas leakage and gives LED Indication and sends signal to control panel also. Detectors and control panel connected with three core cables. And it is installed near gas leakage points. This device is also compatible to operate solenoid valve, Hooter, Siren, Fire Panel and signal to BMS.

Product Features:

- Four wire communication two for power and remains two for Output.
- Protection against wrong wire connection and over range.
- MCU Based
- Fast Response
- Simple installation and maintenance
- Weatherproof and dustproof

Technical Features:

Sr. No.	Detecting Gas	Measurement Range	Working Principle	Operating Voltage	Default Alarm Level	Output	Display Type
1	LPG	Up to 25% or 100% LEL	MOS/CAT	24 VDC	10 % LEL	SPDT	LED INDIACTIONS
2	METHANE	Up to 25% or 100% LEL	MOS/CAT	24 VDC	5 % LEL	SPDT	LED INDIACTIONS

Single Zone Gas Leakage Control Panel
[Model No. GJPBR21]

The **GJPBR21** is a Control Panel/Power Booster/ MIMIC Panel. It shows current status of connected gas leak detectors. Detectors and control panel connected with three core cables. And it is the central part of conventional gas leakage alarm system. This device is also compatible with operate solenoid valves, Hooter, Siren, Fire Panel and BMS. This device also can be used as power booster with some small customization.

Product Features:

- Indicators for Zone Status
  HEALTHY/ NORMAL: GREEN INDICATOR & GAS LEAKAGE: RED INDICATOR
- 2 PFC for fire panel communication or other acuators
- 2 connectors for acuators (Solenoid valves, Mimic panels etc.)
- External SILENCE switch for silent Alarm
- Easy Installation i.e. close to PLUG & PLAY type
- It can also be used as a Power booster as well as control panel

Technical Features:

1	Opreating Voltage	100 – 240 VAC
2	Temprature	10 to 55°C
3	Humidity	95% (Non-Condensing)
4	Output 1	PFC for Actautors 1
5	Output 2	PFC for Actautors 2
6	Output 3	24V output 1
7	Output 4	24V output 2
8	Output 5	For connect Alarm System
9	Diamentions	(L)230mm*(W)220mm*(D)75mm
10	Colour	Caramel White
11	Material	CRCA Sheet GUAGE 20 & dualy powder coated

Gas Leakage
Alarm Panel-2 ZONE
[Model No. GJCP02]

The **GJCP02** is a 2-Zone control panel. It shows current status of all connected gas leak detectors. Detectors and control panel connected with three core cables. And it is the central part of conventional gas leakage alarm system. This control panel is also compatible with operate solenoid valve, Hooter, Siren, Fire Panel and BMS.

Product Features:

- 16x2 dot matrix LCD display
- Zone wise LED's indications
  HEALTHY/ NORMAL: GREEN LED & GAS LEAKAGE: RED LED
- PFC for fire panel communication or other acuators
- External TEST switches of manual testing of each zones
- External switches for RESET control panel and Hooter SILENCE
- Mains ON, System ON, Common LEAKAGE, SILENCE all have seprate LED indications.
- Three Layer High voltage/current protection.
- Easy Installation i.e. close to PLUG & PLAY type
- Battary Back up also available (Optional – As per client requirement)

Technical Features:

1	Operating Voltage	100 - 240 VAC
2	Temprature	10 to 55℃
3	Humidity	95% (Non-Condensing)
4	Output 1	24 VDC 1 Amp for Slonoid Valve
5	Output 2	24 VDC 500 mA for Hooter
6	Output 3	PFC for Actautors
7	Diamentions	(L)330mm*(W)230mm*(D)100mm
8	Colour	Caramel White
9	Material	CRCA Sheet GUAGE 20 & dualy powder coated

Gas Leakage
Alarm Panel-4 ZONE
[Model No. GJCP04]

The **GJCP04** is a 4-Zone control panel. It shows current status of all connected gas leak detectors. Detectors and control panel connected with three core cables. And it is the central part of conventional gas leakage alarm system. This control panel is also compatible with operate solenoid valve, Hooter, Siren, Fire Panel and BMS.

Product Features:

- 16x2 dot matrix LCD display
- Zone wise LED's indications
  HEALTHY/ NORMAL: GREEN LED & GAS LEAKAGE: RED LED
- PFC for fire panel communication or other acuators
- External TEST switches of manual testing of each zones
- External switches for RESET control panel and Hooter SILENCE
- Mains ON, System ON, Common LEAKAGE, SILENCE all have seprate LED indications.
- Three Layer High voltage/current protection.
- Easy Installation i.e. close to PLUG & PLAY type
- Battary Back up also available (Optional – As per client requirement)

Technical Features:

1	Operating Voltage	100 - 240 VAC
2	Temprature	10 to 55°C
3	Humidity	95% (Non-Condensing)
4	Output 1	24 VDC 1 Amp for Slonoid Valve
5	Output 2	24 VDC 500 mA for Hooter
6	Output 3	PFC for Actautors
7	Diamentions	(L)330mm*(W)230mm*(D)100mm
8	Colour	Caramel White
9	Material	CRCA Sheet GUAGE 20 & dualy powder coated

Gas Leakage
Alarm Panel-8 ZONE
[Model No. GJCP08]

The **GJCP08** is an 8-Zone control panel. It shows current status of all connected gas leak detectors. Detectors and control panel connected with four core cable. And it is the central part of conventional gas leakage alarm system. This control panel is also compatible with operate solenoid valve, Hooter, Siren, Fire Panel and BMS.

Product Features:

- 16x2 dot matrix LCD display
- Zone wise LED's indications
  HEALTHY/ NORMAL: GREEN LED & GAS LEAKAGE: RED LED
- PFC for fire panel communication or other acuators
- External TEST switches of manual testing of each zones
- External switches for RESET control panel and Hooter SILENCE
- Mains ON, System ON, Common LEAKAGE, SILENCE all have seprate LED indications.
- Three Layer High voltage/current protection.
- Easy Installation i.e. close to PLUG & PLAY type
- Battary Back up also available (Optional – As per client requirement)

Technical Features:

1	Operating Voltage	100 - 240 VAC
2	Temprature	10 to 55℃
3	Humidity	95% (Non-Condensing)
4	Output 1	24 VDC 1 Amp for Slonoid Valve
5	Output 2	24 VDC 500 mA for Hooter
6	Output 3	PFC for Actautors
7	Diamentions	(L)330mm*(W)230mm*(D)100mm
8	Colour	Caramel White
9	Material	CRCA Sheet GUAGE 20 & dualy powder coated

Gas Leakage
Alarm Panel-16 ZONE
[Model No. GJCP16]

The **GJCP16** is a 16-Zone control panel. It shows current status of all connected gas leak detectors. Detectors and control panel connected with three core cables. And it is the central part of conventional gas leakage alarm system. This control panel is also compatible with operate solenoid valve, Hooter, Siren, Fire Panel and BMS.

Product Features:

• 16x2 dot matrix LCD display
• Zone wise LED's indications
  HEALTHY/ NORMAL: GREEN LED & GAS LEAKAGE: RED LED
• Two PFC for fire panel communication or other acuators
• External switches for RESET control panel and Hooter SILENCE
• Mains ON, System ON, Common LEAKAGE, SILENCE all have seprate LED indications.
• Two Layer High voltage/current protection.
• Easy Installation i.e. close to PLUG & PLAY type

Technical Features:

1	Operating Voltage	100 - 240 VAC
2	Temprature	10 to 55°C
3	Humidity	95% (Non-Condensing)
4	Output 1	24 VDC 1 Amp for Slonoid Valve
5	Output 2	24 VDC 500 mA for Hooter
6	Output 3	PFC 1 for Actautors
7	Output 4	PFC 2 for Actautors
8	Diamentions	(L)330mm*(W)230mm*(D)100mm
9	Colour	Caramel White
10	Material	CRCA Sheet GUAGE 20 & dualy powder coated

Hooter / Sounder With Flasher

Hooter With Flasher is audio-visual alert device to alert everyone by flashing light & high audible sound in case of emergencies. Flasher Hooter is Successfully used with Gas leakage Alarm Systems, Burglar Alarm System & other Emergency Situations. It is really helpful to grab attention from people busy in their task in Factory, Constructions Sites kind noisy areas.

Technical Features:

MODEL No.	GJ H24	GJ H24F
Power I/P	24V DC	24V DC
Sound (in dB)	90 dB	90 dB
Dimensions (mm)	L (190mm) * W (135mm) *D (70mm)	L (190mm) * W (135mm) *D (70mm)
Load	250 mA	300 mA
Body Material	Mild Steel [MS]	Mild Steel [MS]
Colour	Red	Red

Manual Reset Solenoid Valve

A **MANUAL RESET** solenoid valve is an electrically controlled valve. The valve features a solenoid, which is an electric coil with a movable ferromagnetic core (plunger) in its centre. An electric current through the coil creates a magnetic field. The magnetic field exerts an upwards force on the plunger opening the orifice. This is the basic principle that is used to open and close solenoid valves. This valve takes information from CONTROL PANEL and stops the gas supply when gas leakage found in hazardous area.

Technical Features:

1	Use	Non-Aggressive Gases of The Three Families (dry gases)
2	Ambient Temperature (TS)	-20 to + 60 ®C
3	Power Voltages	24 VDC
4	Electric Wiring	Cable Gland M20*1.5
5	Maximum operating pressure	6 BAR
6	Closing Time	< 1 s
7	Protection Rating	IP65
8	Mechanical Resistance	Group 2 (according To EN 13611)
9	Rp Threaded Connection	DN 25 / DN 40 / DN 50
10	IN Compliance With	**PED Directive 2014/68/EU - EMC Directive 2014/30/EU LVD Directive2014/35/EU – RoHS II Directive 2011/65/EU**

Automatic Reset Solenoid Valve

An **AUTOMATIC RESET** solenoid valve is an electrically controlled valve. The valve features a solenoid, which is an electric coil with automatic RESET function. An electric current through the coil creates a magnetic field. The magnetic field exerts an upwards force on the plunger opening the orifice. This is the basic principle that is used to open and close solenoid valves. This valve takes information from CONTROL PANEL and stops the gas supply when gas leakage found in hazardous area.

Technical Features:

Sl. No.	Product Type	Semi Lift Diaphram Operated Solenoid Valve
1	Body Material	SS304
2	Seal Material	NITRILE
3	Media Temp	-30 to 90°C
4	Port Size	1 Inch / 1.5 Inch / 2 Inch
5	Pressure Range	0 to 7 BAR & 0.5 to 12 BAR
6	Port Connection	BSP
7	Valve Position	NO
8	Coil Dia	14 MM FLP DC
9	Product Type	IP 67 Flameproof COIL
10	Voltage	24 VDC
11	Coil Dia	14 MM
12	Wattage	10 Watt
13	Connection	½ Inch NPT
14	Certification	**PESO / CCOE**

Portable Combustible Gas Leak Detector

The **Portable Combustible** gas leak detector can detect the combustible gases concentration in the environment in the real time. This detector will give the sound and light alarm when the concentration exceeds the standard. It is the rechargeable battery-operated device which shows the actual gas leakage concertation in PPM as well as in LEL on its display.

Technical Features:

1	Gas Detected	Combustible
2	Response Time	2s
3	Meter Type	HANDHELD
4	Display Type	LCD
5	Audible Alarm	YES
6	Visual Alarm	YES
7	Power Source	Battery
8	Battery Included	Yes
9	Battery Type	Li-ion polymer
10	Sensitivity	<10 PPM (METHANE)
11	Application	Boiler plant room, Automotive industries, welding, power plants, refrigeration plants, textile industry

GSM Auto Dialler
[Model No. NS-AD-4040]

GSM AUTO DIALLER is an electronic device that can automatically dial telephone numbers to communicate between any two points in the telephone, mobile networks. As example when gas leakage detected in any area, the control panel sends the signal to the connected GSM AUTO DIALLER. After that GSM AUTO DIALER either call or send a text message to the numbers that we have programmed into it. It will transmit the voice or text massages that we set up. The recipient can stop the auto dialler calling by pressing a key, entering a code or replying to the text massage with a code.

Technical Features:

1	Operating Voltage	12VDC/24VDC
2	Current Consumption	800 mA to 1.00 A
3	Maximum Load	1.00 A
4	Response Time	200 M. Sec.
5	Activation	3 Inputs, All Are NC/NO Contact by Operate Programming
6	Case Material	ABS Resin Plastic 1st Grade
7	Dimension	185mm*130mm*40mm
8	Colour	White
9	Mounting	Wall or Flat Surface
10	Weight	0.250 kg Approx.
11	With Packing	0.500 kg Approx.

Our Esteemed Clients

Let's connect & make the world
a safer place!

GAS JANITOR

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