

# BGD-6033-FLP

## Battery Powered Gas Detector



**AMBETRONICS**  
AN ISO 9001:2015 CERTIFIED COMPANY

### Features

- Easy Programming with Password Protection.
- Fast Response, Easy to Read Display.
- Reverse Polarity Protection for Battery connection.
- No Additional Power Required.
- Highly Reliable, Fast, Accurate for Specific Gas Detection.
- Excellent Long Term Stability.
- User Friendly, Simple to Operate & Easy to Install.
- Reduced Operating, Maintenance and Installation Cost, One Man Calibration.
- Sensor Open / Over Range Indication.

### Applications

- Gas Metering Skid
- Gas Cylinder Bank
- Oil & Gas Industries
- Gas Pipeline Projects
- Refineries
- Cold Storage
- Sewage Plants
- Fertilizers Plants
- Stack Monitoring
- Chlorination Plant
- Ambient Monitoring
- Gas Metering Station Burner / Furnace Areas
- Chemical Processing Plant
- Acid Alkalize & Dyes mfg. Plants
- Offshore Drilling & Processing Platform
- Heat Treatment Plants
- Chemical Storage Area
- Control Atmosphere
- Power & industrial Plants
- Coal Mine and Confined Area
- Chemical & Petrochemical Plants
- Automotive industrial / Plants Shops
- Pulp & Paper plants
- Bullets Yards / Storage Yard



Actual image and size may slightly different

## TECHNICAL SPECIFICATIONS

### GENERAL

Sensors	: Electrochemical/NDIR
Range/Resolution	: As specified in the table
Detection Method	: Diffusion
Response Time	: Less than 10 Sec
Set Point	: Two independent set point, with alarm symbol for indication purpose.(There is no relay output)
Setting	: By using Magnetic Wand for Flameproof Model.
Display	: 2 Line, 4-Digit Segmental L.C.D. Display.

### ACCURACY

Toxic/O <sub>2</sub>	: ±2% of the full Scale Range.
NDIR CH <sub>4</sub>	: ±0.2% V/V or ± 5% of Applied Gas.

### ELECTRICAL

- 3.7 Lithium-Ion Rechargeable Battery
- 1 year back-up

### ERROR MONITORING

- During Sensor break/ open, Display shows 'OPEN'.
- During Over Range, Display shows 'OVER'.

**MUST FOR HUMAN & INDUSTRIAL SAFETY**

## ENVIRONMENTAL

Operating Temp. : -15°C to +55°C  
Storage Temp. : -10°C to +60°C

## OPTIONAL ACCESSORIES

- Gas sampling & conditioning system
- Canopy & Mounting stand

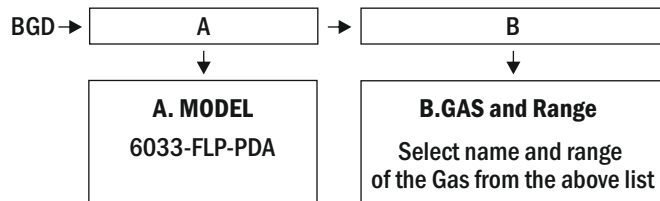
## FLAMEPROOF HOUSING

Protection class : IP-66  
Cabinet material : Cast aluminium alloy, LM-6  
Dimension : 197.5 mm(H) with sensor holder 170mm(W) with two stopper plugs 125 mm(D)  
Mounting : Wall Mounting/ Stand Mounting /Pipe Mounting  
Weight : Approximately 2.5 kg

## NOTE :

- In above Table, Range of gases start from zero.
- Gases which are not listed, are available on request & for other details contact factory.

## ORDERING INFORMATION



**NOTE :** Select order code e.g. BGD-6033-FLP-PDA-T6  
i.e. BGD-6033-Flameproof Enclosure - Chlorine 10 PPM

## GAS WITH RANGE & RESOLUTION

### ELECTROCHEMICAL SENSOR TECHNOLOGY

Sr. No.	GASES	RANGE	UNIT	RES.
O1	Oxygen (O <sub>2</sub> )	25	%V/V	0.01
NT1	Nitrogen (N <sub>2</sub> )	75 to 100	%V/V	0.1
<b>TOXIC GASES</b>				
T1	Ammonia (NH <sub>3</sub> )	100	PPM	1
T2	Ammonia (NH <sub>3</sub> )	1000	PPM	1
T3	Bromine (Br <sub>2</sub> )	10	PPM	0.01
T4	Carbon Monoxide (CO)	1000	PPM	1
T5	Carbon Monoxide (CO)	2000	PPM	1
T6	Chlorine (CL <sub>2</sub> )	10	PPM	0.01
T7	Ethlene Oxide (ETO)	100	PPM	1
T8	Hydrogen (H <sub>2</sub> )	2000	PPM	1
T9	Hydrogen Bromide (HBr)	100	PPM	1
T10	Hydrogen Chloride (HCL)	100	PPM	1
T11	Hydrogen Cyanide (HCN)	100	PPM	1
T12	Hydrogen Fluoride (HF)	10	PPM	0.01
T13	Hydrogen Fluoride (HF)	100	PPM	1
T14	Hydrogen Sulfide (H <sub>2</sub> S)	100	PPM	1
T15	Ozone (O <sub>3</sub> )	20	PPM	0.01
T16	Phosphine (PH <sub>3</sub> )	10	PPM	0.01
T17	Nitrogen Dioxide (NO <sub>2</sub> )	20	PPM	0.01
T18	Nitric Oxide (NO)	250	PPM	1
T19	Sulphur Dioxide (SO <sub>2</sub> )	50	PPM	0.1
T20	Sulphur Dioxide (SO <sub>2</sub> )	2000	PPM	1
<b>NDIR SENSOR TECHNOLOGY</b>				
N4	Methane (CH <sub>4</sub> )	100	%LEL	1

Manufactured by :



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