

PG-200-D

Dual Channel Portable Gas Detector



AMBETRONICS
AN ISO 9001:2015 CERTIFIED COMPANY

Diffusion Type

Features

- Plug-in Sensor provides a full year of warranted protection against hazardous gases
- The Portable Detector detects smallest gas leak on service line and joints
- Easy handling and programming with 3 keys and one key for power ON/OFF
- Easy Software calibration using front keys
- Password protected function menu
- Digital display of Gas Concentration in %V/V or %LEL or PPM on LCD with backlight
- LOW, HIGH, TWA & STEL configurable alarms with buzzer, vibrator alerts & LED indications with multi-color display.
- Optional Data logging & Downloading facility. Downloaded data available in ASCII Format (Max: 50,000 records)
- Battery status indication on the LCD with battery charging LED indication and LOW BAT indication with Buzzer Beep sound
- "Calibration due" indication and alert
- "Sensor Open / Over" range indication
- Power supply with rechargeable battery
- Small, compact and light-weight

Applications

- Emergency response to gas leak
- Equipment maintenance
- Waste water treatment plants
- Steel mills
- Personal Monitoring
- Incoming Cylinder inspection
- Pre entry check quality control Process
- Pulp & Paper Industry
- Ambient monitoring
- Refineries & Petrochemical plant including offshore drilling and plant shutdowns

*Actual image and size may slightly differ



TECHNICAL SPECIFICATIONS

GENERAL

- Sensors : Electrochemical / NDIR
- Range/Resolution : As specified in the table
- Detection Method : Diffusion/ Suction
- Response time : Less than 10 Sec
- Parameter Setting : Setting by 3 keys i.e. (SET, SHIFT, INCR)
- Alarm Set Point : Two independent set points, AL1 & AL2 with LED indication
- Alarm Violations & Setable display : Indicated by Integrated Vibrator & Buzzer (85dB Audible from 1 feet)
- Display : 2-line LCD with backlight tri-color Red/Green/Blue

ACCURACY

Sr. No.	Sensor Technology	Calibration Accuracy
1	Electrochemical	± 2 % FS
2	NDIR - CH4	± 0.2 % V/V OR ± 5% of applied gas whichever is max
3	NDIR - CO2	± 10 % of applied gas

ENVIRONMENTAL

- Operating Temp. : -10°C to +55°C
- Storage Temp. : -10°C to +60°C
- Humidity : Below 95% RH, Non condensing

ELECTRICAL : 3.7V LI-PO RECHARGEABLE BATTERY

BACK UP DETAILS				
Sr. No.	Gas 1	Gas 2	W/O VIOLATION	WITH VIOLATION
1	Toxic	O2 / N2	10 DAYS	25 HOURS
2	Toxic	Toxic	12 DAYS	48 HOURS
3	NDIR	Toxic / O2 / N2	10 DAYS	25 HOURS

COMMON DELIVERABLES

- Test calibration certificate
- Reference calibration gas certificate
- User Manual
- AC Charger Adaptor
- Protection cover
- USB cable (only for data logging option)
- Calibration Cap for Diffusion type

OPTIONAL DATA LOGGING

- Logging Capacity : 50,000 records with data available in ASCII format
- Data Download : In PC Through USB interface using Terminal software

DIMENSIONS & WEIGHT

- Material : ABS Plastic
- Size : 140mm(H) x 70mm(W) x 41 mm(D)
- Weight : 200 grams max

LIST OF AVAILABLE GASES WITH RANGE & RESOLUTION

ELECTROCHEMICAL SENSOR TECHNOLOGY

SR.NO.	GASES	RANGE	UNIT	RES.
01	Oxygen (O ₂)	25	% Vol.	0.01
Nt1	Nitrogen (N ₂)	75 TO 100	%Vol.	0.1
TOXIC GASES				
T1	Ammonia (NH ₃)	100	PPM	1
T2	Ammonia (NH ₃)	1000	PPM	1
T3	Bromine (Br ₂)	10	PPM	0.01
T4	Carbon Monoxide (CO)	1000	PPM	1
T5	Carbon Monoxide (CO)	2000	PPM	1
T6	Chlorine (CL ₂)	20	PPM	0.01
T7	Hydrogen (H ₂)	2000	PPM	1
T8	Hydrogen Bromide(HB _r)	100	PPM	1
T9	Hydrogen Chloride (HCL)	100	PPM	1

SR.NO.	GASES	RANGE	UNIT	RES.
TOXIC GASES				
T10	Hydrogen Cyanide (HCN)	100	PPM	1
T11	Hydrogen Fluoride (HF)	10	PPM	0.01
T12	Hydrogen Fluoride (HF)	100	PPM	1
T13	Hydrogen Sulfide (H ₂ S)	100	PPM	1
T14	Ozone (O ₃)	20	PPM	0.01
T15	Phosphine (PH ₃)	10	PPM	0.01
T16	Nitrogen Dioxide (NO ₂)	20	PPM	0.01
T17	Sulphur Dioxide (SO ₂)	50	PPM	0.1
T18	Sulphur Dioxide (So ₂)	2000	PPM	1

NDIR SENSOR TECHNOLOGY

SR. NO.	GASES	RANGE	UNIT	RES.
N4	Methane (CH ₄)	5	% V/V	1
N5	Methane (CH ₄)	100	% V/V	0.1
N6	Methane (CH ₄)	100	% LEL	1
N7	Carbon Dioxide (CO ₂)	5000	PPM	1
N8	Carbon Dioxide (CO ₂)	2000	PPM	1
N9	Carbon Dioxide (CO ₂)	10	%V/V	1

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

MODEL NO PG - 200	DETECTION METHOD 1) D = Diffusion	DATA LOGGING OPTION 1) L = Data Logging	GAS NUMBER, RANGE, RESOLUTION Refer Gas List
-----------------------------	---	---	--

Example : Select order code e.g. PG-200-DL-T14 & NT1 i.e. PG-200 -DIFFUSION & DATA LOGGING - H2S 100 PPM & Nitrogen 75 % TO 100 % V/V

Manufactured by :



CIMFR



AMBETRONICS ENGINEERS PVT. LTD.

17-B, 16, 14A, Tarun Industrial Estate, New Nagardas Road, Mogra Pada, Andheri (E.) Mumbai - 400 069, India.



+91-22-69623389

+91-22-61673021/22



+91-93207 37646

+91-91674 18106



sales8@ambetronics.com

sales11@ambetronics.com

Follow us on



Version : PG-200-D-R11-28-07-2023