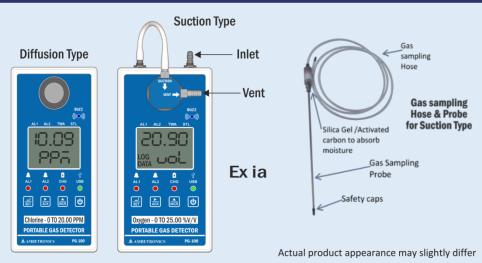
SINGLE CHANNEL PORTABLE GAS DETECTOR



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 by using front keys
- Digital display of Gas Concentration in %V/V or %LEL or PPM on LCD with backlight
- Password protected function menu
- LOW, HIGH, TWA & STEL configurable alarms with buzzer, vibrator alerts & LED indications.
- "Calibration due" indication and alert
- "Sensor Open/Over" Range Indication.
- 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 & LOW BAT indication with Buzzer Beep sound
- Power supply with rechargeable battery
- Small, compact and light-weight

TECHNICAL SPECIFICATIONS

GENERAL					ELECTRICAL : 3.7V LI-PO RECHARGEABLE BATTERY					
Sensors : Electrocher		Electroche	mical/Catalytic / Pellistor /NDIR / PID	BACK UP DETAILS						
Range/Resolution			As specified	d in the table	Sr, No	DETECTOR T	YPE	W/O VIOLATION	WITH VIOLATION	
-			Diffusion / Suction		1	Toxic/ O ₂ /	N ₂	10 DAYS	24 HOURS	
Detection Method		:			2	PID/NDIR(C	O₂ /CH₄)	2 DAYS	18 HOURS	
	a Tima		Less than 1	0.500	3	Catalytic /	Pellistor	8 HOURS	3 HOURS	
Response Time		:			COMMON DELIVERABLES					
Paramet	er Setting	5 :	Setting by 3 keys i.e. (SET, SHIFT, INCR)			Test Calibration Certificate				
Alarm Set Point		:	Two independent set points, AL1 & AL2 with			Reference calibration gas certificate				
			LED indication			User Manual AC Charger Adaptor Protection cover				
Alarm Vi	olations	:		y Integrated Vibrator &	USB cable (only for Data Logging Option)					
			Buzzer (85dB Audible from 1 feet)			Calibration Cap for Diffusion type				
Display		:	2- line LCD	with Backlight	SUCTION ACCESSORIES					
ACCURACY						Calibration & Suction Cap Gas Sampling Hose : PVC				
Sr. No	No SENSOR TECHNOLOGY		INOLOGY	CALIBRATION ACCURACY	• Gas sensing Probe : Std. size 5",					
1	Electroc	Electrochemical		± 2 % FS	Above 5" available on request					
2	Catalytic / Pellistor		ellistor	± 2 % FS	OPTIONAL DATA LOGGING					
3	NDIR - C	H4		± 0.2 % V/V OR ±5% of applied gas	Logging Capacity : 50,000 records with data available in AS					
				whichever is max			forma	at		
4	NDIR-CC)2		±10% of applied gas	Data Download : In PC Through USB interface using			face using		
5	PID	ОТС	5000 PPM	±10% of applied gas	Terminal software					
	Range	0 T 0	1000 PPM	±5% of applied gas	DIME	DIMENSION & WEIGHT				
		0 T 0	50 PPM	±3% of applied gas	Materi	al	: ABS F	Plastic		
ENVIRONMENTAL						Size				
Operating Temp : -10 °C to +5			-10 °C to +	55 °C	Diffusio	on Type	: 140 r	nm(H) x 70 mm(W)) x 40 mm(D)	
Storage Temp · -10 °C to +60 °C		Suction	п Туре	: 140 r	nm(H) x 70 mm(W)) x 50 mm(D)				
Humidity Below 95% RH Non condensing Weight										
inamianty		·	BC10W 3370		Diffusio	on Type	: 225	Grams		
					Suction	п Туре	: 260 0	Grams S		
					Succior	туре	. 2000			

IS/IEC 60079 **GST** Part 11 L-7800047118

CERTIFICATE & APPROVALS INTRINSICALLY SAFE

Ex ia IIC T6 Ga: Suitable for Hazardous Gas Atmospheres Zone 0, Zone 1 and Zone 2, Including Gas Groups IIA, IIB & IIC IS/IEC 60079-0: 2011 IS/IEC 60079-11: 2006 IS/IEC 60529: 2001 (IP-20) BIS MARK LICENCE NO: 7800047118

APPLICATIONS

- Emergency response to gas leak
- Incoming Cylinder inspection
- Equipment maintenance
- Pre entry check quality control process
- Waste water treatment plants
- Pulp & Paper Industry
- Steel mills

- Ambient monitoring
- Personal Monitoring
- Refineries & Petrochemical plant including Offshore drilling and plant shutdowns

GAS WITH RANGE & RESOLUTION

	ELECTROCHEMICAL SEM	SOR TECHN	OLOGY		CATALYTIC/ PELLISTOR SENSOR TECHNOLOGY					
SR. GASES NO		RANGE	UNIT	RES.	COMBUSTIBLE G		ASES			
01	Oxygen (O ₂)	25	% V/V	0.01	SR.NO	GASES	RANGE	UNIT	RES.	
02	Oxygen (O ₂)	100	% V/V	0.1	C1	Acetone (CH ₃) ₂ CO	100	%LEL	1	
NT1	Nitrogen (N ₂)	100	% V/V	0.1	C2	Acetylene (C ₂ H ₂)	100	%LEL	1	
	TOXIC GA	SES			C3	Ammonia (NH ₃)	100	%LEL	1	
T1	Ammonia (NH ₃)	100	PPM	1	C4	Butane/n-Butane (C ₄ H ₁₀)	100	%LEL	1	
T2	Ammonia (NH ₃)	1000	PPM	1	C5	Carbon Monoxide(CO)	100	%LEL	1	
Т3	Bromine (Br ₂)	10	PPM	0.01	C6	Ethanol (C₂H₅OH)	100	%LEL	1	
T4	Carbon Monoxide (CO)	1000	PPM	1	C7	Ethyl Acetate (C ₄ H ₈ O ₂)	100	%LEL	1	
T5	Carbon Monoxide (CO)	2000	PPM	1	C8	Ethylene (C ₂ H ₄)	100	%LEL	1	
Т6	Chlorine (CL ₂)	10	PPM	0.01	C9	Hexane/n-Hexane (C_6H_{14})	100	%LEL	1	
Т8	Hydrogen (H ₂)	2000	PPM	1	C10	Hydrogen (H ₂)	100	%LEL	1	
Т9	Hydrogen Bromide (HBr)	100	PPM	1	C11	Isopropanol (CH ₃ C ₂ H ₄ OH)	100	%LEL	1	
T10	Hydrogen Chloride (HCL)	100	PPM	1	C12	Methane (CH ₄)/HC	100	%LEL	1	
T11	Hydrogen Cyanide(HCN)	100	PPM	1	C13	Methyl Ethyl Ketone (C ₄ H ₈ O)	100	%LEL	1	
T12	Hydrogen Fluoride (HF)	10	PPM	0.01	C14	Methanol (CH₃OH)	100	%LEL	1	
T13	Hydrogen Fluoride (HF)	100	PPM	1	C15	N-Heptane (C ₇ H ₁₆)	100	%LEL	1	
T14	Hydrogen Sulfide (H ₂ S)	100	PPM	1	C16	N-Pentane (C_5H_{12})	100	%LEL	1	
T15	Ozone (O ₃)	20	PPM	0.01	C17	Pentane/n-Pentane (C_5H_{12})	100	%LEL	1	
T16	Phosphine (PH ₃)	10	PPM	0.01	C18	Propane/n-Propane / LPG (C ₃ H ₈)	100	%LEL	1	
T17	Nitrogen Dioxide (NO ₂)	20	PPM	0.01	C19	Toluene (C ₇ H ₈) 100		%LEL	1	
T19	Sulfur Dioxide (SO ₂)	50	PPM	0.1	C20	20 Unleaded Petrol 100 %L		%LEL	1	
Т20	Sulfur Dioxide (SO ₂)	2000	PPM	1	C21	CNG/LNG/LPG/Natural Gas/Flammable Gas	100	%LEL	1	

NDIR SENSOR TECHNOLOGY							
SR.NO	GASES	RANGE	UNIT	RES.			
N1	Carbon Dioxide (CO2)	5000	PPM	1			
N2	Carbon Dioxide (CO2)	5	%V/V	0.1			
N3	Carbon Dioxide (CO2)	100	%V/V	1			
N4	Methane(CH4)	100	%LEL	1			
N5	Methane(CH4)	5	%V/V	0.1			
N6	Methane(CH4)	100	%V/V	1			
N7	Propane / LPG (C3H8)	100	%LEL	1			
N8	Propane / LPG (C3H8)	5	%V/V	0.1			
N9	Propane / LPG (C3H8)	100	%V/V	1			
N10	Carbon Dioxide (CO2)	50000	PPM	1			

PID SENSOR TECHNOLOGY								
SR. No	GASES	RANGE	UNIT	RES				
P1	Isobutylene(C4H8) / other VOC	50	PPM	0.1				
P2	Isobutylene(C4H8) / other VOC	1000	PPM	1				
P3	Isobutylene (SPAN C4H8) / other VOC	5000	PPM	1				

NOTE:

- In above Table, Range of gases start from zero.
- Confirm Gas sampling Hose length by enquiry & it is available only for Suction type detector.
- Gases which are not listed, are available on request & for other details contact factory.
- All VOCs are available in PID detection principle in PPM ranges.
- PID detector will be provided by calibration with Isobutylene gas.
- In PID detector, VOC other than Isobutylene is calibrated with Isobutylene gas by setting VOC correction factor,
- In Calibration Report, VOC factor with respect to Isobutylene gas will be mentioned.
- Detection value of VOC = Isobutylene gas concentration value x factor.

Order information								
MODEL NO		DETECTION METHOD	DATA LOGGING OPTION		GAS NUMBER , RANGE, RESOLUTION			
PG-100	-	1) S= Suction	 No Suffix = No Data Logging 	—	Refer Gas List			
		2) D= Diffusion	2) L= Data Logging					

NOTE: Select order code e.g. PG-100-SL-T8 i.e. PG-100 -SUCTION & DATA LOGGING - HYDROGEN 2000 PPM

Manufactured by :

AMBETRONICS ENGINEERS PVT. LTD.

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Version: PG-100-R8-25-07-2019

ATEX