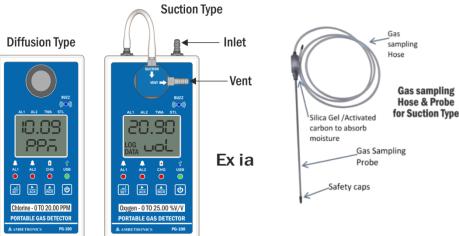
SINGLE CHANNEL PORTABLE GAS DETECTOR



Actual product appearance may slightly differ

FEATURES

CENEDAL

- 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		Electrocher	mical/Catalytic / Pellistor /NDIR / PID	BACK	UP DETAILS				-		
Range/Resolution		:	As specified in the table		Sr, No	DETECTOR T	YPE		W/O VIOLATION	WITH VIOLATION	
Detection			Diffusion /	Suction	1	Toxic/ O ₂ / N ₂			10 DAYS	24 HOURS	
Method		·			2	PID/NDIR(C	02/	CH₄)	2 DAYS	18 HOURS	
Response Time			Less than 1	ess than 10 Sec		Catalytic /	Pelli	istor	8 HOURS	3 HOURS	
Parameter Setting		•			COMMON DELIVERABLES						
	0	:	Setting by 3 keys i.e. (SET, SHIFT, INCR) Two independent set points, AL1 & AL2 with LED indication			 Test Calibration Certificate Reference calibration gas certificate User Manual AC Charger Adaptor Protection cover 					
Alarm Se	et Point	:									
Alarm Vi	alations										
Aldi III VI	UIALIUIIS	:	Indicated by Integrated Vibrator & Buzzer (85dB Audible from 1 feet)			 USB cable (only for Data Logging Option) 					
Display			2- line LCD with Backlight		 Calibration Cap for Diffusion type 						
. ,		•	2 IIIIC LCD	with Dacklight	SUCTION ACCESSORIES						
ACCUR	-				Calibration & Suction Cap Gas Sampling Hose : PVC						
Sr. No		TECHNOLOGY		CALIBRATION ACCURACY	 Gas sensing Probe : Std. size 5", 						
1	Electrochemical			± 2 % FS	Above 5" available on request						
2			llistor	± 2 % FS	OPTIONAL DATA LOGGING						
3 NDIR - CH4			± 0.2 % V/V OR ±5% of applied gas whichever is max	Logging Capacity : 50,000 records with data ava format		a available in ASCII					
4	4 NDIR-CO2			±10% of applied gas	Data D	Data Download : In PC Through USB interf		face using			
5	PID O TO 5000 PPM		5000 PPM	±10% of applied gas	Terminal software		5				
	Range	0 T O	1000 PPM	±5% of applied gas	DIMENSION & WEIGHT						
		0 T O	50 PPM	±3% of applied gas	Materi	al	:	ABS P	lastic		
ENVIRC	DNMENT	AL			Size						
Operatin	Operating Temp		-10 °C to +55 °C		Diffusio	on Type	:	140 n	ոm(H) x 70 mm(W) x 40 mm(D)	
Storage ⁻	Storage Temp		: -10 °C to +60 °C		Suction	п Туре	:	140 n	nm(H) x 70 mm(W) x 50 mm(D)	
Humidity			Below 95% RH, Non condensing		Weight						
		•		· · · · · · · · · · · · · · · · · · ·		on Type			Grams		
					Suction	п Туре	:	260 G	irams		



CERTIFICATE & APPROVALS INTRINSICALLY SAFE

CIMFR TR NO.: CIMFR/TC/P/1642X BIS MARK LICENCE NO: 7800047118 PESO CERT. NO: P431645/1 Ex ia IIC T6 Ga: Suitable for Hazardous Gas Atmospheres 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)

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 RANGE UNIT RES.					COMBUSTIBLE GASES						
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 GASES				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 (C_2H_5OH)	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 ₆ H ₁₄)	100	%LEL	1		
Т8	Hydrogen (H ₂)	2000	PPM	1	C10	Hydrogen (H ₂)	100	%LEL	1		
Т9	Hydrogen Bromide (HB _r)	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 (CH ₃ OH)	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_3H_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	Unleaded Petrol	100	%LEL	1		
T20 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					

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				
Р3	Isobutylene	5000	PPM	1				
	(SPAN C4H8) / other VOC							

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.





ATEX