LEADERS IN GAS DETECTION

Since 1977

GP-1000

Features:

- **Target gas is selectable**
  25 Combustible gases are pre-programmed within the unit.
  All 25 selections can be calibrated using the one gas (CH_4).

- **Pump booster function**
  Pump speed selectable from 0.3ml/min to 0.6ml/min.
  Gas can be sampled faster or longer distance with higher pump rate.

- **Intrinsically safe**
  Safety rating Ex ia IIC/IIB T4 Ga allows users to detect gas at Zone 0 hazardous areas where explosion hazards may exists.

- **Ingress proof rating IP-67**
  Water proof, Dust proof construction for outdoor use meets IP-67 rating.

- **Filters (optional) can be used with standard gas sampling probe**
  Hydrogen Sulphide (H_2S) or Silicone which would normally damage the Sensor can be removed by adding the optional filter specifically designed for H_2S or Silicone.

Standard accessory

Hand strap

Sampling probe (with water trap function)
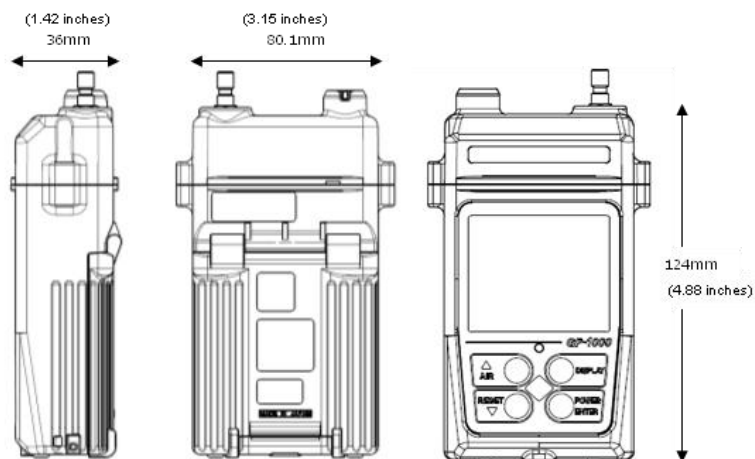
Optional accessory

Carrying case

Protection film

Cartridge filter
- Silicone removal
- H2S removal

Spiral tube (1m)

Outer dimension

(1.42 inches) 36mm

(3.15 inches) 80.1mm

124mm (4.88 inches)

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Specifications

Gas detected	Combustible gas (CH_4, HC etc. Refer to the gas list)	
Sensor principle	Catalytic combustion	
Detection range	0-100%LEL	
Alarm types	Gas alarm:	Latching, 1st and 2nd alarm
	Trouble alarm:	Low flow, sensor disconnection, low battery voltage, Circuit abnormality, detection range abnormality
Alarm methods	Gas alarm:	Continuous buzzer, flashing lights, gas concentration reading blinks
	Trouble alarm:	Intermittent buzzer, flashing lights, trouble condition is displayed
Preset alarms	1st:10%LEL, 2nd:50%LEL	
Indication accuracy	Full scale +/- 5% (at same condition)	
Response time	Within 30 seconds (T90)	
Sampling method	Sample-draw, Flow rate > 0.3L/min (Approx. 0.6L/min for pump boosting mode)	
Indication precision	Digital LCD with 7 segments + Bar meter (50 partitioning) + Status information	
	Digital numeral 7 segments indication: 0 - 100%LEL	
	Digital bar meter indication: Auto range (0 – 10%LEL / 0 – 100%LEL)	
	0～10 %LEL (L range)	
	0～100 %LEL (H range)	
Power source	AA alkaline battery, 4pcs	
Continuous operation	More than 20 hours (new battery, no alarm and no indication, at 25°C)	
Operating temp. & humidity	Operating temperature -20°C ~ +65 °C , humidity 0 - 95%RH (non condensing)	
Dimension	80.1(W) x 124(H) x 36(D)mm (3.15(W) x 4.88(H) x 1.42(D) inches)	
Weight	260g (excludes alkaline battery)	
Water dust proof	IP 67	
Safety design	Intrinsically safe Ex ia IIC/IIB T4 Ga	
Approvals	Ex-proof: IECEx, ATEX, Other: CE marking	
Function	LCD backlight, data log, log data indication, peak indication	
	Pump boosting, gas select	

Model GP-1000 Detectable Gases

Gas List	Name Indicated on LCD	Lower Explosion Limit LEL	Gas List	Name Indicated on LCD	Lower Explosion Limit LEL
Acetone	C3H6O	2.15vol%	IPA	IPA	2.0vol%
Acetylene	C2H2	1.5vol%	Isobutane	i-C4H10	1.8vol%
Benzene	C6H6	1.2vol%	MEK	MEK	1.8vol%
Butadiene	C4H6	1.1vol%	Methane	CH4	5.0vol%
Dimethylether	DME	3.0vol%	Methanol	CH3OH	5.5vol%
Ethane	C2H6	3.0vol%	Methyl Isobutyl Ketone	MIBK	1.2vol%
Ethanol	C2H5OH	3.3vol%	Methyl Methacrylate	MAA	1.7vol%
Ethyl Acetate	EtAc	2.1vol%	Propane	C3H8	2.0vol%
Etylene	C2H4	2.7vol%	Propylene	C3H6	2.0vol%
Heptane	n-C7H16	1.1vol%	Tetrahydrofuran	THF	2.0vol%
n-Hexane	n-C6H14	1.2vol%	Toluene	C7H8	1.2vol%
Hydrogen	H2	4.0vol%	Xylene	C8H10	1.0vol%