



**RKI** Analytical  
Instruments  
The Analyser People



# GP-1000

Portable combustible  
gas detector

CH<sub>4</sub> HC

## Features

- Target gas Select function
- Direct reading from a list of 25 gases
- Strong sample drawing capability / Pump booster function
- Large simultaneous display with bargraph and auto back light
- Water and dust resistant IP67
- Datalogging standard



**RIKEN KEIKI**  
For a Safer World

## Description

The GP-1000 is a compact and lightweight gas detector with high sensitivity for detection of hydrocarbons. The measurement is performed by a catalytic sensor.

The device has a built-in pump with pump booster function and a direct selection from a list of 25 hydrocarbons for exact alignment of the target gas - Only calibration on CH<sub>4</sub> necessary, then any one of 25 target gases can be selected by a simple button operation.

Optional filters can be used with the standard gas sampling probe to remove Hydrogen sulphide (H<sub>2</sub>S), or Silicone that would normally damage this type of catalytic sensor.

## Gas List Target Gases

No.	Gas list	Indication LCD	LEL
1	Methane	CH <sub>4</sub>	5.0 Vol.-%
2	Isobutane	i-C <sub>4</sub> H <sub>10</sub>	1.8 Vol.-%
3	Hydrogen	H <sub>2</sub>	4.0 Vol.-%
4	Methanol	CH <sub>3</sub> OH	5.5 Vol.-%
5	Acetylene	C <sub>2</sub> H <sub>2</sub>	1.5 Vol.-%
6	Ethylene	C <sub>2</sub> H <sub>4</sub>	2.7 Vol.-%
7	Ethane	C <sub>2</sub> H <sub>6</sub>	3.0 Vol.-%
8	Ethanol	C <sub>2</sub> H <sub>5</sub> OH	3.3 Vol.-%
9	Propylene	C <sub>3</sub> H <sub>6</sub>	2.0 Vol.-%
10	Acetone	C <sub>3</sub> H <sub>6</sub> O	2.1 Vol.-%
11	Propane	C <sub>3</sub> H <sub>8</sub>	2.0 Vol.-%
12	Butadiene	C <sub>4</sub> H <sub>6</sub>	1.1 Vol.-%
13	Cyclopentane	C <sub>5</sub> H <sub>10</sub>	1.4 Vol.-%
14	Benzene	C <sub>6</sub> H <sub>6</sub>	1.2 Vol.-%
15	n-Hexane	n-C <sub>6</sub> H <sub>14</sub>	1.2 Vol.-%
16	Toluene	C <sub>7</sub> H <sub>8</sub>	1.2 Vol.-%
17	Heptane	n-C <sub>7</sub> H <sub>16</sub>	1.1 Vol.-%
18	Xylene	C <sub>8</sub> H <sub>10</sub>	1.0 Vol.-%
19	Ethyl acetate	EtAc	2.1 Vol.-%
20	IPA	IPA	2.0 Vol.-%
21	MEK	MEK	1.8 Vol.-%
22	Methyl methacrylate	MMA	1.7 Vol.-%
23	Dimethyl ether	DME	3.0 Vol.-%
24	Methylisobutylketone	MIBK	1.2 Vol.-%
25	Tetrahydrofuran	THF	2.0 Vol.-%

## Specification

Model	GP-1000
Target Gas	Combustibles
Detection principle	Catalytic combustion
Detection range (increments)	0 - 100%LEL
Accuracy	± 5% Full scale
Response time	T <sub>90</sub> within 30 sec
Sampling method	Sample Draw: Flow rate > 0.3 L / min, 0.6 L / min pump boosting
Display	Digital display (7 segments) and Bar graph (50 segments)
Power source	AA Alkaline battery (4 pcs)
Continuous operation	AA Alkaline battery: more than 20 h
Operating temp & humidity	-20 to +50°C below 95% Rh (Non-condensing)
Dimensions / Weight	Approx. 80 x 124 x 36 mm / Approx. 0.26 kg
Ingress proof rating	Equivalent to IP67
Approvals	IECEX, ATEX, CE mark

Specifications subject to change without notice.

### Additional features

- LCD Backlight
- data logger
- data log indication
- peak indication
- pump boosting function

### Accessories standard

- Sampling probe
- Handstrap
- Users manual

### Accessories optional

- Carrying Case
- Cartridge Filters for Silicone
- Cartridge Filters for H<sub>2</sub>S
- Protection film for display
- data logger management program


  
**RKI Analytical Instruments**  
**The Analyser People**  
 RKI Analytical Instruments GmbH  
 Daimlerstraße 12  
 D-61352 Bad Homburg v. d. H.  
 Tel.: +49 (0)6172 49510-0  
 Fax: +49 (0)6172 49510-30  
 E-Mail: rki@rki-analytical.de  
 Web: www.GasSensor.de

### Distributed by:

UNIGAS MARINE Srl  
 Via Righetti 9/1  
 16146 Genova (ITALY)  
 tel. +39 010 8062197  
 Email: info@unigasmarine.it  
 Web: www.unigasmarine.it

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