

PORTABLE GAS DETECTOR

LEADERS IN GAS DETECTION

NP-1000

Since 1977



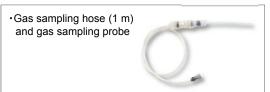
Features:

- Base gas is selectable
 Base gas is selectable from 3 gases (air, N2 and CO2).
- Target gas is selectable
 Direct reading is selectable from 5 gases.
- Pump booster function
 Higher pump rate gives faster sampling and long distance suction.
- Auto range switching
 W Automatically switch over from "low-range" to "high-range" and "high-range" to "low-range".
- Filters (optional) can be used with standard gas sampling probe H2S removal filter, silicone removal filter can be installed in standard gas sampling probe. Hydrogen Sulphide (H₂S) or Silicone that would damage sensor in NP-1000 can be removed by these filters.

Accessories







Optional parts









 2L gas sampling bag



 Data logger management program



















Control Equipment Pty Ltd ABN 23 009 838 582

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Offices/Agents in:

Sydney Melbourne Adelaide Hobart Auckland Wellington



Specifications

Model	NP-1000		
Gas to be detected	CH4 (C3H8, i-C4H10, He, Ar) / H2		
Detection principle	Thermal conductivity		
Measurement range	0 - 100 vol%		
Alarm type	Gas Alarm: ON/OFF setting available (default: OFF), arbitrary alarm setpoint setting available, non-latching (auto-reset). Fault alarm: Flow rate low, poor sensor connection, battery voltage low, circuit abnormality, and calibration range abnormality.		
Alarm operation	Gas Alarm: Continuous buzzer sound, blinking of red lamp and gas concentration display (with alarm set to ON). Fault alarm: Intermittent buzzer sound, blinking of red lamp, fault detail display.		
Accuracy of the reading	±5 vol% (under the same conditions)		
Response time	90% response: Within 30 seconds		
Detection method	Pump suction type with a flow rate of 0.3 L/min or more (pump L mode)		
Display	LCD seven-segment numeric display, bar meter display (50 divisions) and status information display Seven-segment digital display: 0 - 100 vol% Digital bar meter display: Auto range switching L range: 0 - 10.0 vol% / H range: 0 - 100 vol%		
Power supply	AA alkaline battery x 4		
Continuous operating time	About 30 hours (new batteries, without alarms or lighting, at 25°C)		
Operating environment	Operating temperature range: -20°C - +50°C Operating humidity range: 95%RH or less (non-condensing) Storage temperature range: -25°C - +60°C Storage humidity range: 95%RH or less (non-condensing)		
External dimensions	80.1mm (W) x 124mm (H) x 36mm (D) (projection portions excluded)		
Weight	Approx. 260 g (without batteries)		
Drip-proof and dust- proof performances	Equivalent to IP-67		
Explosion-proof performance	Intrinsically safe explosion-proof structure ExialICT4		
Certification, etc.	Explosion-proof certification: IECEx, ATEX, TIIS Others: CE marking		
Functions	LCD backlight, data logger, log data display, peak display, switching pump performance between strong and weak, changing a reading target gas, balance gas selection.		

^{*} To meet the explosion-proof performance, use the batteries specified in the certification of explosion-proof.

Base gas

No.	Gas	Symbol
1	Air	Air
2	Nitrogen	N2
3	Carbon dioxide	CO2

Gas list

No.	Gas	Symbol
1	Methane	CH4
2	Propane	C3H8
3	Isobutane	i-C4H10
4	Argon	Ar
5	Helium	He
*	Hydrogen	H2

※ There is a NP-1000 for H2 detection only. If would like to detect H2 gas, order the H2 version. H2 version cannot convert reading to other gases.

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