



PORTABLE GAS DETECTOR

LEADERS IN GAS DETECTION

Since 1977

NP-1000



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

• 4 AA alkaline batteries



• Hand strap



• Gas sampling hose (1 m) and gas sampling probe



Optional parts

• 30m hose



• Dedicated leather case



• Filter



• 2L gas sampling bag



• Data logger management program



OIL & GAS



CONFINED SPACE



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FUMIGATION

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Specifications	
Model	NP-1000
Gas to be detected	CH ₄ (C ₃ H ₈ , i-C ₄ H ₁₀ , He, Ar) / H ₂
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 ExiaIICT4
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	N ₂
3	Carbon dioxide	CO ₂

Gas list		
No.	Gas	Symbol
1	Methane	CH ₄
2	Propane	C ₃ H ₈
3	Isobutane	i-C ₄ H ₁₀
4	Argon	Ar
5	Helium	He
※	Hydrogen	H ₂

※ 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.