

For High Concentration Gas Measurement Portable Gas Detector

MODEL NP-1000

ATEX intrinsic safe design Explosion proof: Exia II CT4 Ingress protection rating: IP 67

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. Only 1 gas (CH4) is required for calibration.

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Pump booster function

Higher pump rate gives faster sampling and long distance suction.

Auto range switching

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 sulfide or silicone that would damage sensor in NP-1000 can be removed by these filters.

Specifications

Gas list

Gas

Methane

Propane

Isobutane

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Model	NP-1000		No.	I
Gas to be detected	CH4 (C3H8, i-C4H10, He, Ar) / H2			+
Detection principle	Thermal conductivity		1	
Measurement range	0 - 100 vol%		2	t
Alarm type	Gas Alarm: ON/OFF setting available (default: OFF), arbitrary alarm setpoint			4
	setting available, non-latching (auto-reset)		3	
	Fault alarm: Flow rate low, poor sensor connection, battery voltage low, circuit			+
	abnormality, and calibration range abnormality Gas Alarm: Continuous buzzer sound, blinking of red lamp and gas	-	4	
Alarm operation	concentration display (with alarm set to ON)		5	Τ
	Fault alarm: Intermittent buzzer sound, blinking of red lamp, fault detail display			+
Accuracy of the	+5 vol% (under the same conditions)		*	
reading	±5 vol% (under the same conditions)		※ Th	
Response time	90% response: Within 30 seconds		on	
Detection method	Pump suction type with a flow rate of 0.3 L/min or more (pump L mode)		or	-
	LCD seven-segment numeric display, bar meter display (50 divisions) and	10	H2	2 v
Display	status information display			ot
	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		Be	
Continuous	tinuous		Ba	5
operating time	About 30 hours (new batteries, without alarms or lighting, at 25°C)		N	Т
	Operating temperature range: -20 - +50°C		No.	
Operating	Operating humidity range: 95%RH or less (non-condensing)		1	
environment	Storage temperature range: -25 - +60°C			╉
External dimensions	Storage humidity range: 95%RH or less (non-condensing)		2	
	80.1 (W) x 124 (H) x 36 (D) mm (projection portions excluded)	-	3	t
Weight	Approx. 260 g (without batteries)	-	Ľ	
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			

Argon Ar Helium He H2 Hydrogen ere is a NP-1000 for H2 detection y. If would like to detect H2 gas,

Symbol

CH4

C3H8

i-C4H10

er the H2 version. version cannot convert reading other gases.

e gas

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

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

Accessories



Optional parts



★ Distributed by :

RIKEN KEIKI Co., Ltd.

2-7-6 Azusawa, Itabashi-ku, Tokyo 174-8744, Japan

- Phone: +81-3-3966-1113
- Telefax: +81-3-3558-9110
- E-mail: intdept@rikenkeiki.co.jp

Web site: http://www.rikenkeiki.co.jp