



OPTICAL GAS INDICATOR

LEADERS IN GAS DETECTION

Since 1977

FI-8000 Anaesthetic Version



Features:

- Capable of measuring up to 8 kinds of gases
- Easy-to-read wide LCD display
- Built-in sample pump
- Operates continuously for over 12 hours (on 3 AA batteries)
- Optional Lithium Ion battery pack (over 18 hours continuous use)
- International certifications IECEx / ATEX / IP-67
- Lightweight at only approx. 1.2 kg
- Data logging stores up to 100 readings

Applications:

- Hospitals
- Veterinarians
- Dentists

The FI-8000 is the latest model from Riken in a long line of optical interferometers dating back to the 1930's when Riken's founder first developed the technology for Methane detection to help prevent explosion accidents on oil tankers and in coal mines.

This anaesthetic gas analyser is calibrated for eight (8) selectable gas readings on the digital display. This device is a precision gas analyser which is adapted to measure the % volume concentration of any of the commonly used gas in a mixture of air or oxygen for anaesthetic gas. The operating principle of this analyser utilises the highly accurate measurement with CCD and fourier analysis technology and electronic circuitry to provide direct digital readout.

Today, the FI-8000 optical gas indicator is considered the instrument of choice for anaesthetic vaporiser checking, in part due to its portability, robustness, low cost, and reliable measurements. It is used throughout the veterinary clinics, hospitals and by vaporiser manufactures / service companies to measure anaesthetic gases such as Halothane, Isoflurane, Sevoflurane, and Desflurane.



OIL & GAS



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FUMIGATION

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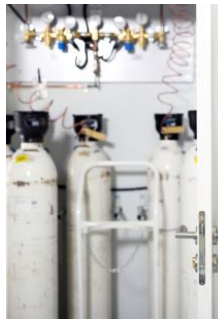


Detection principle	Optical Interferometric method
Sampling Method	Automatic draw-in by built-in pump
Display	LCD digital display (gas concentration, gas name, measuring range, battery level)
Self Diagnosis Function	Low battery voltage, low UV intensity, low contrast, abnormal pressure, abnormal temperature
Power Supply	Alkaline battery unit (AA alkaline battery x 3) (standard) or lithium ion battery unit (optional)
Protection Class	IP-67 and international certification: IECEx and ATEX
Operating temp & humidity	Temperature range: -20— 50°C, humidity range: below 95% RH (non condensing)
Dimensions & weight	Approx. 154mm (w) x 127mm (h) x 81mm (d), weight approx 1.1 kg (with battery unit included)
Continuous Operating Time	Alkaline: 12+ hours Lithium Ion: 18+ hours
External Output	IrDA (for data logger)
Outputs	Data logger
Functions	Data logging, pressure correction and temperature correction
Standard Accessories	Absorption tube, sampling hose and AA size alkaline batteries (3pcs)
Optional Accessories	AC adapter, data logger software and Lithium Ion battery pack
Warranty	1 year material and workmanship

TYPE - 00 ANAESTHETIC GAS

FI-8000 TYPE-P-24-00 (anaesthetic gas and pump specification)

	MEASURING GAS TYPE (Display Characters)	MEASURING RANGE (Minimum Digit)	REFERENCE GAS (REF CAL value)
1	HALOTHANE in O ₂	0.00—6.00 vol% (0.01 vol %)	AIR (1.57 vol%)
2	ISOFLURANE in O ₂	0.00—8.00 vol% (0.01 vol %)	AIR (1.65 vol%)
3	SEVOFLURANE in O ₂	0.00—10.00 vol% (0.01 vol %)	AIR (1.70 vol%)
4	DESFLURANE in O ₂	0.00—20.00 vol% (0.02 vol %)	AIR (2.10 vol%)
5	HALOTHANE in AIR	0.00—6.00 vol% (0.01 vol %)	AIR (0.00 vol%)
6	ISOFLURANE in AIR	0.00—8.00 vol% (0.01 vol %)	AIR (0.00 vol%)
7	SEVOFLURANE in AIR	0.00—10.00 vol% (0.01 vol %)	AIR (0.00 vol%)
8	DESFLURANE in AIR	0.00—20.00 vol% (0.02 vol %)	AIR (0.00 vol%)



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