

OPTICAL GAS INDICATOR

FI-21 Model



Features:

- Capable of measuring up to 8 kinds of gases
- Gas can be selected with key operation
- Direct digital readout
- Built-in sampling pump
- High accurate measurement with CCD and Fourier analysis technology
- Data logging stores up to 100 readings
- Few consumable parts saving on maintenance cost

Applications:

- Measurement of gas concentrations for solvent gases, fumigation gases, etc.
- Measurement of gas purity
- Measurement of fuel calories
- Measurement of anaesthetic gases

The Riken Gas Indicator Model FI-21 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 solvents, fumigation, gas purity and anaesthetic gas.

The standard instrument is calibrated for eight (8) selectable gas readings on the direct digital display.

The FI-21 operating principle utilises the highly accurate measurement with CCD and Fourier analysis technology and electronic circuitry to provide direct digital readout.

The FI-21 is equipped with a built-in sample draw pump for ease of use.



CONTACT INFORMATION

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F1-21 Model

Detection principle		Optical Interferometric method			
Display		Digital display (Measuring gas, base gas, gas concentration, time, etc)			
Structure		Non-explosion proof			
Measuring method		Batch measurement			
Gas sampling method		Suction by internal pump (Pump stops operation while reading)			
Indication accuracy		Within <u>+</u> 3% of the indication value <u>+</u> 1 digit			
Outputs		Data logger, 0-1VDC			
Data logging function		Day, time (24 hours) and measurement results, maximum recording : 100 data points			
Operating temp & humidity		5-35°C, below 80% R.H.			
Operating pressure		Atmospheric pressure			
Power source		C size alkaline batteries (4pcs) or AC adaptor (optional)			
Battery life		Approx. 20 hours (without sampling)			
Dimensions & weight		Approx. 20cm x 14.5cm x 8cm (L x W x H) Weight approx 2 kg.			
Standard Accessories		Carrying case, absorption tube, sampling hose, C size alkaline batteries (4pcs), sampling "T" piece (for anaesthetic application only)			
Optional Accessories		AC adapter, data logger software, cable for data logger			
Type No		Applications	Name of Gas	Measuring gas	Range
Туре-01	Vol% solvent gases applications		Toluene in air Methyl ethyl ketone in air Ethyl acetate in air Xylene in air Isopropyl alcohol in air Methyl isobutyl ketone in air Methanol in air	C_7H_8 in air MEK in air EtAc in air C_8H_{10} in air IPA in air MIBK in air CH ₃ OH in air	0 – 2%vol 0 – 5%vol 0 – 5%vol 0 – 1%vol 0 – 2%vol 0 – 1%vol 0 – 1%vol
Type-02	%LEL solvent gas applications		Toluene in air Methyl ethyl ketone in air Ethyl acetate in air Xylene in air Isopropyl alcohol in air Methyl isobutyl ketone in air Methanol in air	C_7H_8 in air MEK in air EtAc in air C_8H_{10} in air IPA in air MIBK in air CH ₃ OH in air	0 - 100% LEL 0 - 100% LEL
Туре-03	Fumigation gas applications		Methyl bromide in air Phosphine in air Methyl iodide in air Methyl bromide in air Propylene oxide in air Oxygen in N ₂ Sulfuryl Fluoride in air	CH_3Br in air PH_3 in air CH_3l in air CH_3Br in air PO in air O_2 in N_2 SO_2F_2 in air	0 – 200 mg/l 0 – 50 mg/l 0 – 200 mg/l 0 – 5% vol 0 – 10% vol 0 – 100% vol 0 – 200 mg/l
Type-04 Gas purity applications Type-05 Anaesthetic applications		Helium in air Neon in air Hydrogen in air Methane in air Carbon dioxide in air Ammonia in air Hydrogen in N ₂ Hydrogen in CO ₂ Halothane in O ₂	He in air Ne in air H ₂ in air CH ₄ in air CO ₂ in air NH ₃ in air H ₂ in N ₂ H ₂ in CO ₂ Halothane in O ₂	$\begin{array}{c} 0 - 100\% \text{ vol} \\ 0 - 6\% \text{ vol} \end{array}$	
		Isoflurane in O ₂ Sevoflurane in O ₂ Desflurane in O ₂ Halothane in air Isoflurane in air Sevoflurane in air Desflurane in air	Isoflurane in O ₂ Sevoflurane in O ₂ Desflurane in O ₂ Halothane in air Isoflurane in air Sevoflurane in air Desflurane in air	$0 - 8\% \text{ vol} \\0 - 10\% \text{ vol} \\0 - 20\% \text{ vol} \\0 - 6\% \text{ vol} \\0 - 8\% \text{ vol} \\0 - 10\% \text{ vol} \\0 - 20\% \text{ vol} \\0 - 20\% \text{ vol} $	

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