

OPTICAL GAS INDICATOR

Gas Detection for Life

FI-21 Model



Features

- Capable of measurement for 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 saves 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 analyzer 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.



RIKEN KEIKI

FI-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 $\pm 3\%$ of the indication value ± 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. 200(W) x 80(H) x 145(D)mm, 2kg
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
Type-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	C7H8 in air MEK in air EtAc in air C8H10 in air IPA in air MIBK in air CH3OH 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	C7H8 in air MEK in air EtAc in air C8H10 in air IPA in air MIBK in air CH3OH in air	0 – 100% LEL 0 – 100% LEL 0 – 100% LEL 0 – 100% LEL 0 – 100% LEL 0 – 100% LEL 0 – 100% LEL
Type-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 N2	CH3Br in air PH3 in air CH3I in air CH3Br in air PO in air O2 in N2	0 – 200 mg/l 0 – 50 mg/l 0 – 200 mg/l 0 – 5% vol 0 – 10% vol 0 – 100% vol
Type-04	Gas purity applications	Helium in air Neon in air Hydrogen in air Methane in air Carbon dioxide in air Ammonia in air Hydrogen in N2 Hydrogen in CO2	He in air Ne in air H2 in air CH4 in air CO2 in air NH3 in air H2 in N2 H2 in CO2	0 – 100% vol 0 – 100% vol 0 – 100% vol 0 – 100% vol 0 – 100% vol 0 – 100% vol 0 – 100% vol 0 – 100% vol
Type-05	Anaesthetic applications	Halothane in O2 Isoflurane in O2 Sevoflurane in O2 Desflurane in O2 Halothane in air Isoflurane in air Sevoflurane in air Desflurane in air	Halothane in O2 Isoflurane in O2 Sevoflurane in O2 Desflurane in O2 Halothane in air Isoflurane in air Sevoflurane in air Desflurane in air	0 – 6% vol 0 – 8% vol 0 – 10% vol 0 – 20% vol 0 – 6% vol 0 – 8% vol 0 – 10% vol 0 – 20% vol

AUSTGAS Instrument Services Pty Ltd

13 Greer St
Bonnyrigg Heights NSW 2177
AUSTRALIA

Phone: +61 2 9823 2551
Fax: +61 2 9822 9284
Mobile: +61 451 304 884
Email: austgas@hotmail.com