

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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|--------------------------------------|--|
| 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. 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 |
|---------|---------------------------------|--|--|--|
| 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 | C ₇ H ₈ in air MEK in air EtAc in air C ₈ H 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 ₇ H ₈ in air MEK in air EtAc in air C ₈ H ₁₀ in air IPA in air MIBK in air CH ₃ OH 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 N ₂ Sulfuryl Fluoride in air | CH ₃ Br in air PH ₃ in air CH ₃ I in air CH ₃ Br in air PO in air O ₂ in N ₂ SO ₂ F 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 | 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 | 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 | 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 O ₂ Isoflurane in O ₂ Sevoflurane in O ₂ Desflurane in O ₂ Halothane in air Isoflurane in air Sevoflurane in air Desflurane in air | Halothane in O ₂ 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 – 6% vol 0 – 8% vol 0 – 10% vol 0 – 20% vol 0 – 6% vol 0 – 8% vol 0 – 10% vol 0 – 20% vol |

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