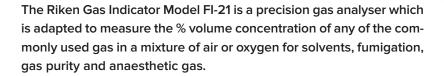


# FI-21

## Optical Gas Indicator



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.

### **APPLICATIONS**

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

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 + 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		

## **KEY FEATURES**

FI-21 GAS INDICATOR

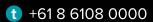
- Capable of measuring up to 8 kinds of gases
- Gas can be selected with key operation
- Direct digital readout
- **Built-in sampling pump**
- High accurate measurement with CCD and Fourier analysis technology
- Data logging stores up to 100 readings
- Few consumable parts saving on maintenance cost

## FI-21 MODEL

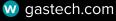
### **SPECIFICATIONS** Specifications subject to change without notice

Type No.	Application	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
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
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 <sub>2</sub> Sulfuryl Fluoride in air	CH <sub>3</sub> Br in air PH <sub>3</sub> in air CH <sub>3</sub> I in air CH <sub>3</sub> Br in air PO in air O <sub>2</sub> in N <sub>2</sub> SO <sub>2</sub> F <sub>2</sub> 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 <sub>2</sub> Hydrogen in CO <sub>2</sub>	He in air Ne in air H <sub>2</sub> in air CH <sub>4</sub> in air CO <sub>2</sub> in air NH <sub>3</sub> in air H <sub>2</sub> in N <sub>2</sub> H <sub>2</sub> in CO <sub>2</sub>	0 - 100% vol 0 - 100% vol
TYPE -05	Anaesthetic applications	Halothane in O <sub>2</sub> Isoflurane in O <sub>2</sub> Sevoflurane in O <sub>2</sub> Desflurane in O <sub>2</sub> Halothane in air Isoflurane in air Sevoflurane in air Desflurane in air	Halothane in O <sub>2</sub> Isoflurane in O <sub>2</sub> Sevoflurane in O <sub>2</sub> Desflurane in O <sub>2</sub> 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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