

RIKEN

C4E-0100

OPTICAL GAS INDICATOR

MODEL FI-21

Toluene
M E K Xylene
SOLVENT GAS
I P A
Ethyl acetate

Methyl bromide
Methyl iodide
FUMIGATION GAS
Propylene oxide
Phosphine



Helium
Hydrogen
GAS PURITY
Oxygen
Carbon dioxide

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.

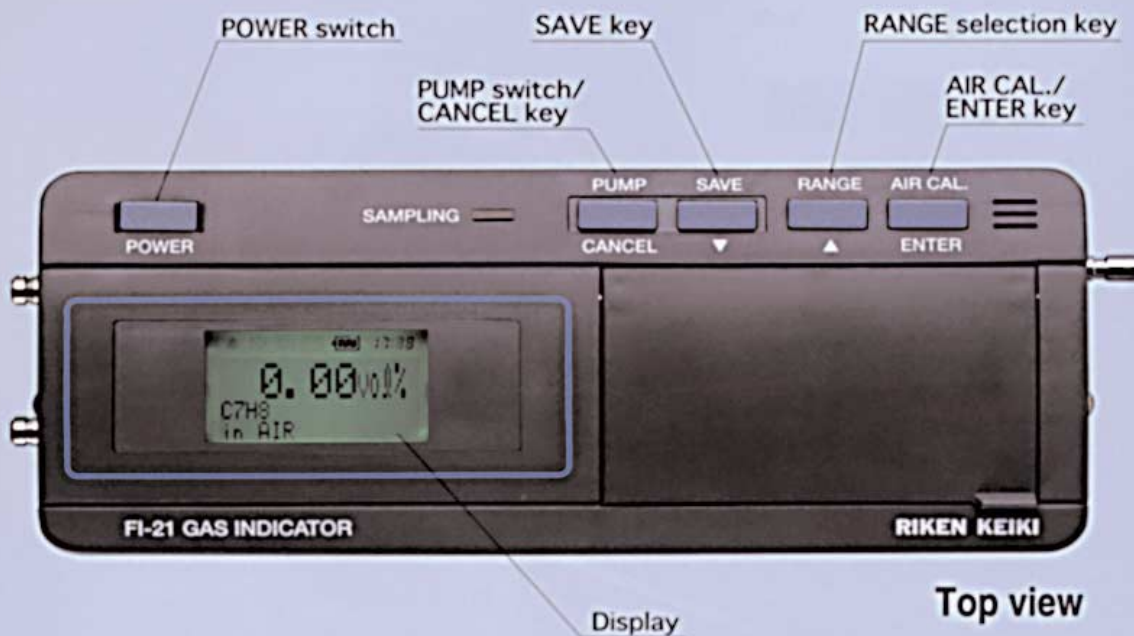
TYPICAL APPLICATIONS

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



RIKEN KEIKI

Unique Electronics Interferometer Method Provides High Accuracy



Display screen (Example)



TYPE-01 For solvent gas (vol%)



TYPE-03 For fumigation gas

MODEL FI-21

MEASURING GASES AND RANGES

Please specify the type listed below when ordering.

Model FI-21 TYPE-01 (FOR SOLVENT GASES vol%)

Name of gas	Symbol	Measuring range
Toluene in air	C7H8 in AIR	0~2vol%
Methyl ethyl ketone in air	MEK in AIR	0~5vol%
Ethyl acetate in air	EtAc in AIR	0~5vol%
Xylene in air	C8H10 in AIR	0~1vol%
Isopropyl alcohol in air	IPA in AIR	0~2vol%
Methyl isobutyl ketone in air	MIBK in AIR	0~1vol%
Methanol in air	CH3OH in AIR	0~6vol%

Model FI-21 TYPE-02 (FOR SOLVENT GASES %LEL)

Name of gas	Symbol	Measuring range
Toluene in air	C7H8 in AIR	0~100%LEL
Methyl ethyl ketone in air	MEK in AIR	0~100%LEL
Ethyl acetate in air	EtAc in AIR	0~100%LEL
Xylene in air	C8H10 in AIR	0~100%LEL
Isopropyl alcohol in air	IPA in AIR	0~100%LEL
Methyl isobutyl ketone in air	MIBK in AIR	0~100%LEL
Methanol in air	CH3OH in AIR	0~100%LEL

Model FI-21 TYPE-03 (FOR FUMIGATION GASES)

Name of gas	Symbol	Measuring range
Methyl bromide in air	CH3Br in AIR	0~200mg/l
Phosphine in air	PH3 in AIR	0~50mg/l
Methyl iodide in air	CH3I in AIR	0~200mg/l
Methyl bromide in air	CH3Br in AIR	0~5vol%
Propylene oxide in air	PO in AIR	0~10vol%
Oxygen in N ₂	O ₂ in N ₂	0~100vol%

Model FI-21 TYPE-04 (FOR GAS PURITY)

Name of gas	Symbol	Measuring range
Helium in air	He in AIR	0~100vol%
Neon in air	Ne in AIR	0~100vol%
Hydrogen in air	H ₂ in AIR	0~100vol%
Methane in air	CH ₄ in AIR	0~100vol%
Carbon dioxide in air	CO ₂ in AIR	0~100vol%
Ammonia in air	NH ₃ in AIR	0~100vol%
Hydrogen in N ₂	H ₂ in N ₂	0~100vol%
Hydrogen in CO ₂	H ₂ in CO ₂	0~100vol%

Please consult with us for other gases.

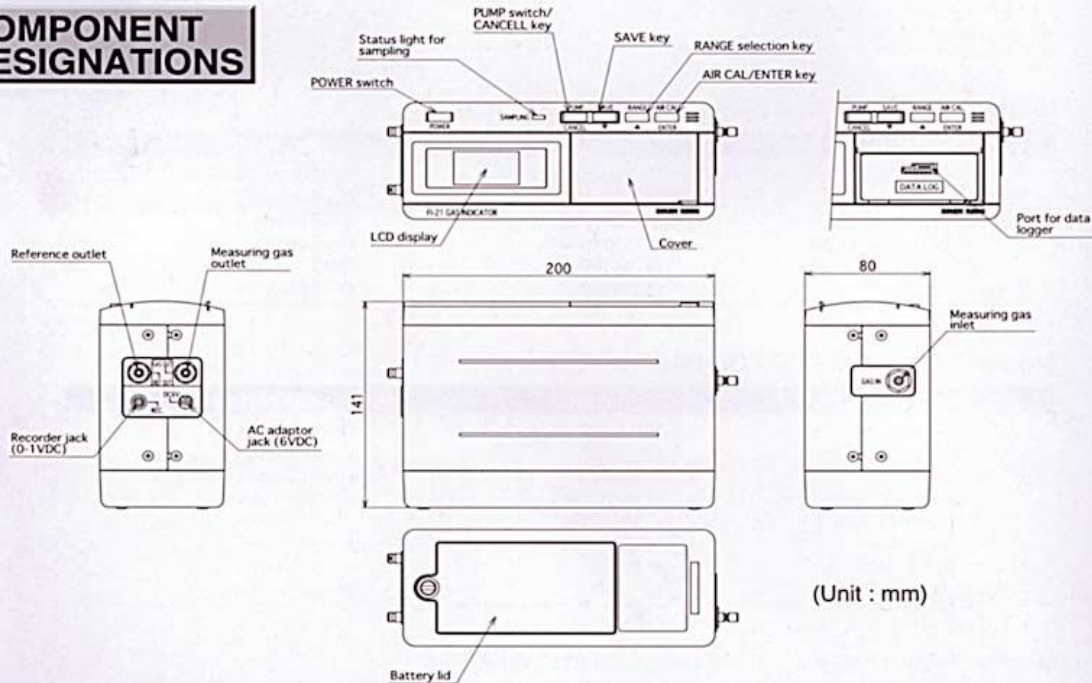
MODEL FI-21

SPECIFICATIONS

Model	FI-21
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 (option)
Battery life	Approx. 20 hours (without sampling)
Dimensions & weight	Approx. 200(W)×80(H)×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 adaptor, data logger software, cable for data logger

Specifications subject to change without notice.

COMPONENT DESIGNATIONS



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