

Interferometer type



IB-210

- Stationary measurement for combustible or non-combustible gas
- Automatic suction
- Digital display
- Built-in printer
- Built-in clock
- Built-in backlight

Measuring gas	Carbon dioxide, bromomethane
Measuring range	Please feel free to inquire
Accuracy	Within ±2% of full scale
Power Source	AC100V/110V, AC200V/220V
Analog Output	4~20mA (Load 250 Ω)
Dimensions	300(W) x 340(H) x 160(D) mm



B-2

- Precision measurement for combustible or non-combustible gas
- Highly reliable
- Manual aspiration
- Light weight

Measuring range	Please feel free to inquire
Accuracy	Within ±2% of full scale
Power Source	R14P (C size) x 2pcs
Operating temperature	-10~+50°C
Weight	1030g (with case)
Dimensions	76(W) x 167(H) x 44(D) mm



IK-410

- Stationary gas calorimeter
- Automatic intake
- Digital display
- Built-in printer
- Built-in clock
- Built-in backlight

Measuring gas	Methane, Butane, Propane
Measuring range	0~15,000, 0~20,000 or 0~30,000kcal/m ³
Accuracy	Within ±2% of full scale
Power Source	AC100V/110V, AC200V/220V
Analog Output	4~20mA (Load 250 Ω)
Dimensions	300(W) x 340(H) x 160(D) mm



K-4

- Portable Gas Calorimeter
- Highly reliable
- Manual aspiration
- Light weight

Measuring gas	Methane, Butane, Propane
Measuring range	0~15,000, 0~20,000 or 0~30,000kcal/m ³
Accuracy	Within ±2% of full scale
Power Source	R14P (C size) x 2pcs
Operating temperature	-10~+50°C
Weight	1030g (with case)
Dimensions	76(W) x 167(H) x 44(D) mm

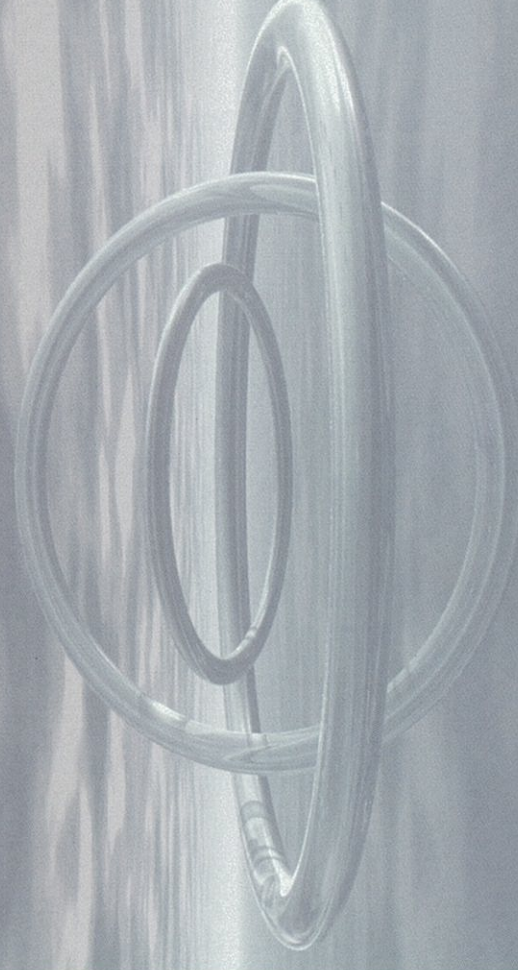
※ Specifications are subject to change without any prior notice.

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Fixed type detector for combustible, oxygen and toxic gas

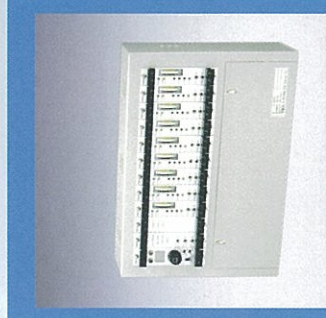


5000 series

- Bar graph display
- 2 level alarm output as standard equipment
- 4 ~ 20mA output as standard equipment
- Easy maintenance

Model Name	TU-5000	TK-5000	TO-5000
Measurement Gas	Combustible gases	Toxic gases	Oxygen
Principle	Catalytic Combustion	Electro Chemical	Galvanic Cell
Measurement Range	0~100%LEL	As per list according to target gas	0~25%
Accuracy	Within ±5% of F.S.	Within ±5~10% of F.S.	Within ±0.7% of O ₂
Output Signal	4~20mA (load 250 Ω)		
Alarm Set Level	10 or 20%LEL	As per list according to target gas	18%O ₂
Alarm Output	Total alarm (AL1, AL2) : 1c and 1a, AC125V, 3A Independent alarm output (AL1, AL2) : 1a, AC125V, 0.5A		
Power Source	AC100V/50/60Hz/AC110 or AC220 (available on request), ※ DC12 or 24V		
Dimensions	375(W) × 384 (H) × 110(D)mm (for 6 ch.)		

※ For combustible gas only



3000 series

- Thinned design (Unit width 35mm)
- Easy maintenance
- Extension alarm function

Model Name	TU-3000	TK-3000	TO-3000
Measurement Gas	Combustible gases	Toxic gases	Oxygen
Principle	Catalytic Combustion	Electro Chemical	Galvanic Cell
Measurement Range	0~100%LEL	As per list according to target gas	0~25%
Accuracy	Within ±5% of F.S.	Within ±5~10% of F.S.	Within ±0.7% of O ₂
Alarm Set Level	10 or 20%LEL	As per list according to target gas	18%O ₂
Alarm Output	Total alarm (AL1, AL2) : 1c and 1a, AC250V, 3A Independent alarm output (AL1, AL2) : 1a, AC125V, 1A		
Power Source	AC100V/50/60Hz/AC110 or AC220 (available on request), ※ DC12 or 24V		
Dimensions	345(W) × 390 (H) × 98(D)mm (for 6 ch.)		

※ For combustible gas only



3500 series

- Thinned design (Unit width 39.5mm)
- Easy maintenance
- Buzzer, lamp and output as standard equipment

Model Name	TU-3500	TK-3500	TO-3500
Measurement Gas	Combustible gases	Toxic gases	Oxygen
Principle	Catalytic Combustion	Electro Chemical	Galvanic Cell
Measurement Range	0~100%LEL	As per list according to target gas	0~25%
Accuracy	Within ±5% of F.S.	Within ±5~10% of F.S.	Within ±0.7% of O ₂
Alarm Set Level	20%LEL	As per list according to target gas	18%O ₂
Alarm Output	1a or 1b relay contact (AC125V, 1A)		
Power Source	AC100V/50/60Hz/AC110 or AC220 (available on request), ※ DC12 or 24V		
Dimensions	39.5(W) × 185 (H) × 200(D)mm		

※ For combustible gas only



303 series

- Highly rugged ABS plastics (UL standard)
- Drip proof
- Light weight
- With dimmer switch
- Wealth of optional feature

Model Name	TS-303	TK-303	TO-303
Measurement Gas	Combustible gases	Toxic gases	Oxygen
Principle	Catalytic Combustion	Electro Chemical	Galvanic Cell
Measurement Range	0~100%LEL	As per list according to target gas	0~25%
Accuracy	Within ±5% of F.S.	Within ±5~10% of F.S.	Within ±0.7% of O ₂
Alarm Set Level	10 or 20%LEL	As per list according to target gas	18%O ₂
Alarm Output	1c relay contact (AC125V, 1A)		
Power Source	AC100V/50/60Hz/AC110 or AC220 (available on request), ※ DC12 or 24V		
Dimensions	120(W) × 206 (H) × 73(D)mm		

※ For combustible gas only

Portable type detector



PTC-608

- Range switching from high concentration (VOL%) to low concentration (%LEL)
- Automatic suction type (internal pump)
- Alarm function (for %LEL)
- Hydrogen explosion-proof structure (id3G4)

Measuring range	High concentration 0~100vol% Low concentration 0~100%LEL
Measuring principle	VOL% mode : thermal conductivity, %LEL mode : Catalytic combustion
Accuracy	Within ±5% of full scale
Alarm level	VOL% mode ; Nil, %LEL mode : 20%LEL (variable)
Power Source	LR14(C size) x2pcs (alkaline battery)
Weight	about 1.6kg
Dimensions	163(W) × 137 (H) × 67(D)mm



P-508

- Combustible gas detector
- Double range of 0-100 and 0-20%LEL
- Long life and sensitive sensor
- Explosion-proof structure (id2G4)
- Lightweight design

Measuring principle	Catalytic combustion
Suction system	Automatic suction
Measuring range	0~100 / 0~20%LEL
Accuracy	Within ±5% of full scale
Alarm level	20%LEL
Continuous use time	about 5 hours, R20P(D size) x2pcs
Weight	about 1.5kg
Dimensions	163(W) × 137 (H) × 67(D)mm

※ GC-708 (10~100vol%) is for high concentration.



TIP-OX series

- Oxygen detector
- Digital display
- 21% automatic calibration
- Two measurement and alarm function
- Two gas collection type (automatic suction type, diffusion type)
- Explosion-proof structure (i3aG4)

Measuring range	0~25%O ₂
Accuracy	Within ±0.7%
Standard designated concentration	For vessel : AL1 : 18% AL2 : 8%O ₂ (UP) For industry : AL1 : 18% AL2 : 23%O ₂ (UP)
Function	Peak hold mode
Power source	R20P(D size) x2pcs
Continuous use time	TIP-0XP : about 8 hours, TIP-0XF : about 30 hours
Weight	about 1.3kg
Dimensions	163(W) × 137 (H) × 67(D)mm

※ TIP-0XP : Suction type, TIP-0XF : Diffusion type



TIP-TX series

- Toxic gas detector
- Digital display
- Automatic suction
- Peak hold function
- Light weight
- 2 level alarm
- Explosion-proof structure (i3aG4)

Measuring range	As per list according to target gas
Accuracy	Within ±5% of full scale
Alarm level	As per list according to target gas
Suction system	Automatic suction
Continuous use time	about 8 hours, R20P(D size) x2pcs
Weight	about 1.3kg
Dimensions	163(W) × 137 (H) × 67(D)mm

Measuring gas	Measuring range	Alarm setting level
C O	0~150ppm	50ppm
H ₂ S	0~30ppm	10ppm
NH ₃	0~100ppm	25ppm
HCl	0~30ppm	10ppm
C l ₂	0~5ppm	1ppm
HF	0~10ppm	3ppm
HCN	0~50ppm	10ppm

Measuring gas	Measuring range	Alarm setting level
PH ₃	Phosphine	0~1ppm
SO ₂	Sulphur Di-oxide	0~20ppm
NO ₂	Nitric Di-oxide	0~20ppm
AsH ₃	Arshine	0~1ppm
BzH ₆	Diborane	0~1ppm
SiH ₄	Monosilane	0~50ppm

C l ₂	Measuring gas	Measuring range		Alarm level	
		Low range	High range	AL1	AL2
	Chlorine	0~20ppm	0~100ppm	5ppm	25ppm
	Hydrides (PH ₃ calibration) PH ₃ , AsH ₃ , SiH ₄ , B ₂ H ₆	0~4ppm	0~20ppm	0.3ppm	1.5ppm
H ₂	Hydrogen	0~400ppm	0~2000ppm	100ppm	500ppm
SO ₂	Sulphur Di-oxide	0~20ppm	0~100ppm	5ppm	25ppm
HCN	Hydrogen Cyanide	0~40ppm	0~200ppm	10ppm	50ppm
NO ₂	Nitric Di-oxide	0~20ppm	0~100ppm	5ppm	25ppm
H ₂ S	Hydrogen Sulphide	0~20ppm	0~100ppm	5ppm	25ppm
C O	Carbon Mono-oxide	0~200ppm	0~1000ppm	50ppm	250ppm