

# RIKEN

## PPB OR PPM DIGITAL DISPLAY!! HIGH SENSITIVITY TOXIC GAS MONITOR

### MODEL **FP-260**

#### ONE TOUCH CASSETTE MODEL

#### Features

- Ideal for monitoring clean room in the semi-conductor industry.
- Ideal for low gas concentration (PPB detection).
- Interference-free detection.
- Easy to replace cassette tape with a plug-in cassette.
- Cassette tape remainder display included.



**RIKEN  
FINE**

**RIKEN KEIKI**

# MODEL FP-260

## Part Designation



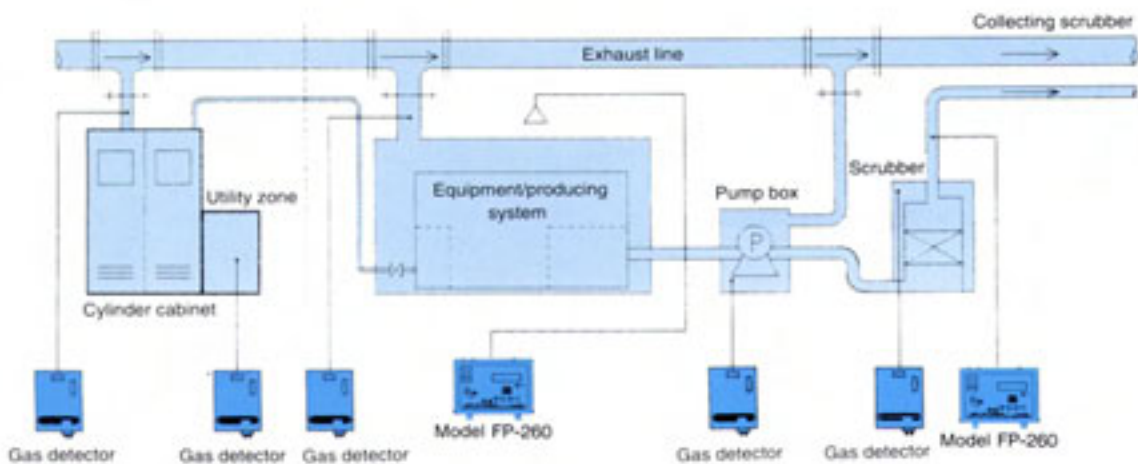
The FP-260 is a highly sensitive toxic gas monitor using a gas detection cassette tape which is almost free of interference from other gases.

Since the detection tape responds only to the chemical reaction of the gas being measured, there is no interference from hydrogen or organic gases.

Its best application then is in monitoring of the target gas at the outlet of an absorption scrubber, as well as in monitoring of the work environment for personnel safety.

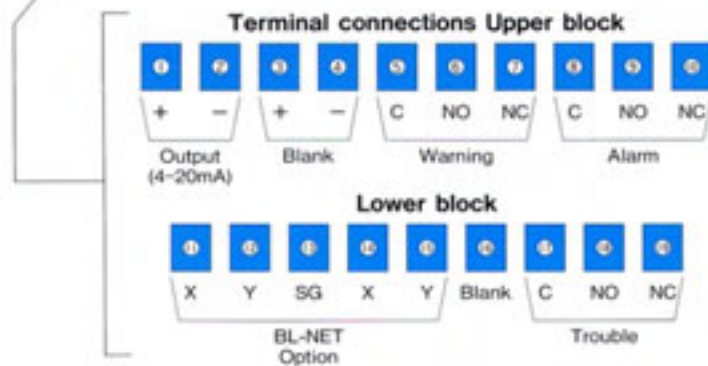
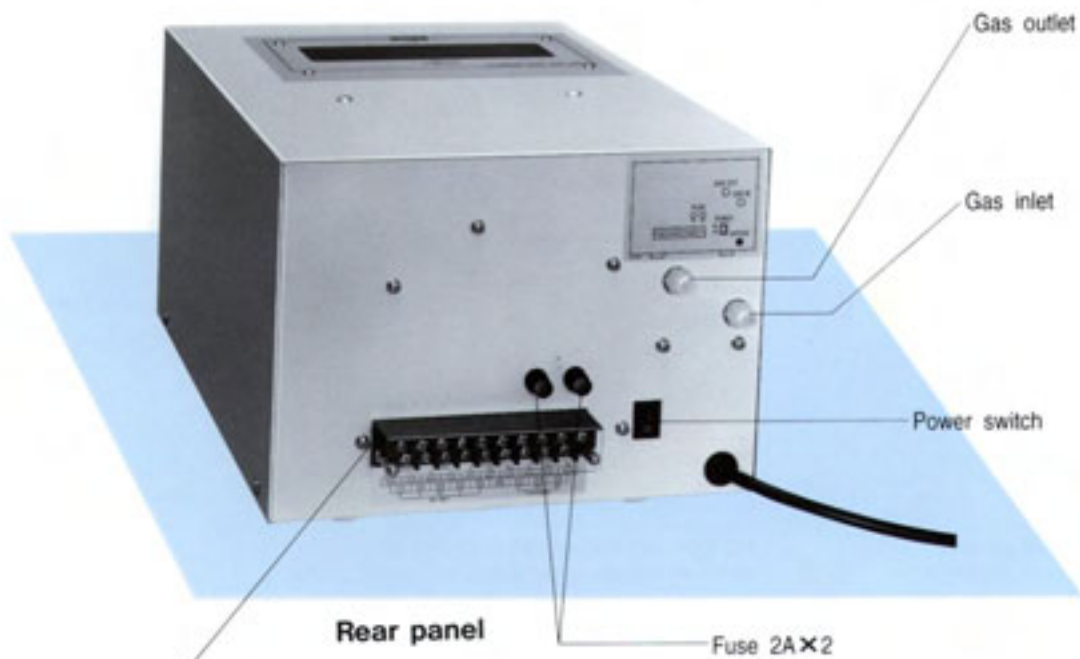
Since the cassette can be replaced so quickly and easily by a one touch cassette method, detection of multiple gases is practical.

## Detection area/point (Example)



## Detectable gases and detection range

Detectable gas	TLV value	Detection range	Resolution
Phosphine (PH <sub>3</sub> )	300 ppb	0~900 ppb	5
Silane (SiH <sub>4</sub> )	5 ppm	0~15 ppm	0.25
Diborane (B <sub>2</sub> H <sub>6</sub> )	100 ppb	0~300 ppb	5
Arsine (AsH <sub>3</sub> )	50 ppb	0~150 ppb	1
Disilane (Si <sub>2</sub> H <sub>6</sub> )	5 ppm	0~10 ppm	0.1
Hydrogen sulfide (H <sub>2</sub> S)	10 ppm	0~100 ppb	1
Phosgene (COCl <sub>2</sub> )	100 ppb	0~300 ppb	2
Chlorine (Cl <sub>2</sub> )	0.5 ppm	0~100 ppb	1
Hydrogen selenide (H <sub>2</sub> Se)	50 ppb	0~300 ppb	2



## Specifications

Type	Desk top type, "Transportable"	
Detection principle	Photoelectric photometry method using paper tape cassette	
Detection tape	Cassette type, in VHS style quick change cassette.	
Detectable gases	Toxic gases (Please refer to the front page)	
Measuring range	Please refer to the front page	
Accuracy	Within ( $\pm 20\%$ of indication value+1 digit) at constant conditions	
Operating time for cassette tape	One month (with no alarm) • Tape remainder display • Alarm display at tape end	
Display	Digital LCD	
Alarm function	Alarm preset value	Warning : 1/6 of full scale Alarm : 1/3 of full scale
	Display	Lamp (warning-yellow, alarm-red) and buzzer
	Output	Latching (standard) or non latching (option) • Dry contact 1A (Warning) latching AC 125V, 0.5A • Dry contact 1A (Alarm) latching AC 125V, 0.5A
	Response time	Within 60 seconds when exposed to gas concentration of 1.6 times alarm level.
Self-diagnosis (Trouble alarm)	Contents	Sensor trouble, Flow fail, Warning of tape end, Tape exchange or tape damage, System trouble.
	Display	Lamp and LCD message.
	Output	"C" contact (No voltage, self-diagnosis) rating : AC 125V, 0.5A
Output signal (Analog)	4-20mA, Max load resistance 300 $\Omega$ (standard) or Multiplex transmission (Option)	
Operating temperature & humidity	5 C~35 C (41 F~95 F) 30%~90% RH	
Sampling flow rate	Approx 1.0 l/min.	
Gas inlet	Outer $\phi$ 6mm teflon tube with fitting	
Power supply and Power consumption	AC 100V, AC115V, AC220V, 50/60 Hz (35VA at Measurement, 60VA at Feeding Tape)	
Dimensions & weight	Approx 275(W) $\times$ 220(H) $\times$ 370(D) mm, Approx 12 kgs	
Standard accessories	Dust filter : 1 pce, Fuse (2A) : 1 pce, Gas detection cassette tape : 1 roll	

\*Specifications subject to change without notice.



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