

RIKEN

C2E-0311

*Environmental gas monitor for semiconductor fabs
and exhaust gas from manufacturing tools and scrubbers*

HIGH SENSITIVITY TOXIC GAS MONITOR

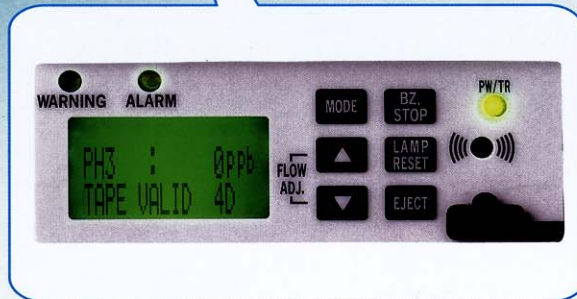
MODEL **FP-300**

Photoelectric photometry method
with detection tape

**The World
Smallest!**



Micro cassette
Approx. same size as 8mm video cassette



FEATURES

- Small and compact.
- Highly sensitive and ideal for low gas concentrations (ppb detection).
- Interference-free detection.
- Easy detection tape replacement with plug-in cassette.
- Tape remainder display and tape end warning alarm provided.



RIKEN KEIKI

Model FP-300

Detectable gases and detection range (For environment / For scrubber)

Detectable gas		TLV	Detection range	Resolution	1 st Alarm	2 nd Alarm	Tape No.
Ammonia	NH ₃	25ppm	0.5~4ppm	0.1ppm	1ppm	2ppm	FC-010
Arsine	AsH ₃	50ppb	0~150ppb	1ppb	50ppb	100ppb	FCL-001
Chlorine	Cl ₂	0.5ppm	★ 0~0.8ppm	0.01ppm	0.25ppm	0.5ppm	FCL-105
			0~1.5ppm				
Diborane	B ₂ H ₆	100ppb	0~300ppb	5ppb	50ppb	100ppb	FCL-002
Hydrogen chloride	HCl	5ppm	0.25~1ppm	0.025ppm	0.5ppm	0.75ppm	FC-004
			1.5~8ppm	0.1ppm	2.5ppm	5ppm	FC-005
Hydrogen fluoride	HF	3ppm	0~9ppm	0.1ppm	1.5ppm	3ppm	FC-006
Hydrogen sulfide	H ₂ S	10ppm	0~100pp	1ppb	17ppb	34ppb	FCL-001
			0~10ppm	0.05ppm	1ppm	2ppm	
Phosphine	PH ₃	300ppb	★ 0~500ppb	5ppb	150ppb	300ppb	FCL-001
			0~900ppb				
Silane	SiH ₄	5ppm	★ 0~8ppm	0.1ppm	2.5ppm	5ppm	FCL-002
			0~15ppm				

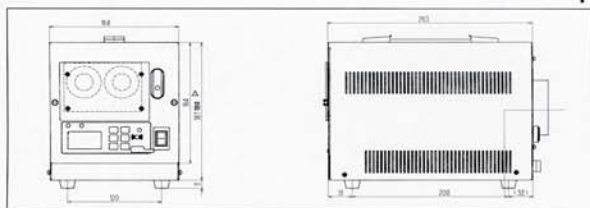
Note : Detection range marked by ★ is for scrubber use.
 • please specify name of gas and measuring range when ordering.

Specifications

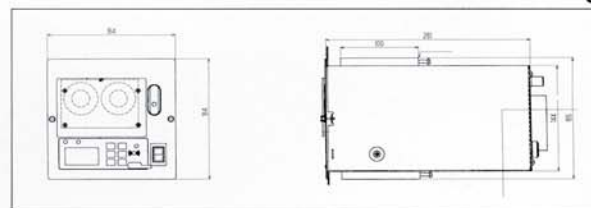
Model	FP-300
Detection principle	Photoelectric photometry method using tape cassette
Detection tape	Plug-in cassette
Detectable gas	See the table above.
Accuracy	Within $\pm 20\%$ +1 of indication
Operation time of the tape	1 month(with no alarm) Tape remainder display, Tape end warning
Alarm preset point	See the table above.
Alarm functions	Latching(standard)or self reset Lamp(Caution:Yellow,Warning:Red)and buzzer
Self-diagnosis	Sensor failure, Low flow, Tape failure, Tape end warning, Failure of tape setting, System error
External output signal	4-20mA(300 Ω at maximum load resistance)
Operating temperature & humidity	5~35°C 30~90%RH(nom-condensing)
Power supply & power	24VDC $\pm 10\%$ for panel mounting 100VAC, 110VAC, 117VAC, 220VAC for desk top
Dimensions & weight	[Panel mounting] Approx. 164(W) \times 164(H) \times 261(D) Approx. 5.5kg
	[Desk top] Approx. 164(W) \times 198(H) \times 263(D) Approx. 6.5kg

• Specifications subject to change without notice.

Dimensions



Desk top



Panel mounting

Applications examples

- Detecting of uncaptured gas from scrubber.
- Environmental monitoring of Semiconductor fabs.



RIKEN KEIKI CO.,LTD.

2-7-6, Azusawa, Itabashi-ku, Tokyo 174-8744, Japan
 Phone: TOKYO (03)3966-1113
 Telefax: TOKYO (03)3558-9110(GIII)
 E-mail: intdept@rikenkeiki.co.jp
 Telex : 272 2638 RKNFNE
 Cable: RIKENFINE TOKYO

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