

For C_4F_6 , C_5F_8 , COS detection in Semiconductor processing

Gas detector

Model TP-70DG II



Applications

- Semiconductor
- Chemicals industry
- Laboratories etc.

Benefits

- Selectable Ethernet communication
- Multifunctional sensor unit (New intelligent sensor)
- Self diagnosis functions (Flow failure)
- Easy to replace sensor unit
- Large size LCD (Easily viewable)

SPECIFICATION

Model	TP-70DG II
Detection principle	Catalyser + Electrochemical type
Detectable gas*	C4F6/C5F8/COS
Gas concentration display	Character LCD (Digital and Bar-Meter Display)
Measuring range*	C4F6 : 0~5ppm/C5F8 : 0~5ppm/COS : 0~15ppm
Detection method	Pump suction type · pyrolysis type
Flow rate	0.5L/min ± 10%
Alarm set point* (standard setting)	C4F6 : 2ppm(1st),4ppm(2nd)/C5F8 : 2ppm(1st),4ppm(2nd)/COS : 5ppm(1st),10ppm(2nd)
Power indication	POWER lamp on (green)
Various indications	Gas name display/flow rate indicator/mode display/Communication status display/ pyrolyzer connection display
Output	Gas concentration signal/Gas alarm contact/Trouble alarm contact
Alarm accuracy (under an identical condition)	Within ±30%(to the alarm set point value)
Alarm delay time (under an identical condition)	Within 60 seconds(by providing the gas 1.6 times the alarm set point) (excluding delay in the tube and in the communication)
Gas alarm type	Two-level alarm(H-HH)
Gas alarm indication	1st : ALM1 lamp blinks or lights up(red) 2nd : ALM2 lamp blinks or lights up(red)
Gas alarm action*	Fault alarm pattern or non latching(Auto-recover)
Gas alarm contact*	Each no-voltage contact each 1a or 1b(2 step independent) De-energized(energized at an alarm) or energized(de-energized at an alarm)
Fault alarm· Self diagnosis	System abnormalities/sensor abnormalities/flow rate abnormalities/ pyrolyzer heater abnormalities
Fault alarm indication	FAULT lamp on(yellow)/detail display
Fault alarm action	Auto-recover
Fault alarm contact*	No-voltage contact 1a or 1b De-energized(energized at an alarm) or energized(de-energized at an alarm)
Contact capacity	AC125V · 0.25A/DC24V · 0.5A(load resistance)
Contact cable	Cable of CVV, etc.(1.25sq) max. 6-core
Various functions	White backlight/alarm delay/suppression/zero follower/sensitivity correction/ flow control/calibration history/alarm trend history/event history
Power supply for transmission	DC24V ± 10%(Dedicated line by blocking filter)
Power supply for pyrolyzer	AC100~240V ± 10%
Power consumption	150VA or less
Piping port	Rc1/4(O.Dφ6-1t half-union for Teflon tube<PP>supplied)
Initial clear	Approx. 25sec
Operating temperature	20~40°C(at a constant condition)
Operating humidity	40~70%RH(non-condensing)
Structure	Tabletop type
Outer dimension	Approx. 180(W) × 225(H) × 285(D)mm(projection portions excluded)
Weight	Approx. 6.0kg

* Please specify your request when ordering.

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