

# Troubleshooting

Model: SD-1 series

## ■ Product abnormalities

Symptom/display	FAULT lamp	Cause	Corrective action
The power cannot be turned on.	—	The wiring is not correct.	Connect the wiring properly.
		The terminal plate is removed.	Connect the terminal plate properly.
		Abnormalities/momentary blackout of power supply system	Provide the rated voltage. Check the UPS, power supply line filter and insulation transformer, and then take additional measures.
		Cable abnormalities (open circuit/not connected/short circuit)	Check the wiring of detector and related devices around it.
Abnormal operations	—	Disturbances by sudden surge noise, etc.	Turn off and restart the detector. If such a symptom is observed frequently, take appropriate measures to eliminate the noise.

## ■ Reading abnormalities

Symptom	Cause	Corrective action
The reading rises (drops) and it remains so.	Drifting of sensor output	Perform the zero adjustment.
	Presence of interference gas	Disturbances by interference gases, such as solvents, cannot be eliminated completely. For information on actions, such as removal filter, please contact distributor.
	Slow leak	A very small amount of the gas to be detected may be leaking (slow leak). Because ignoring it may cause dangers, take a remedial measure, i.e., taking actions the same as those for the gas alarm.
	Environmental changes	Perform the zero adjustment (AIR adjustment).
A gas alarm is triggered despite of no gas leak and no other abnormalities at the detection point.	Presence of interference gas	Disturbances by interference gases, such as solvents, cannot be eliminated completely. For information on actions, such as removal filter, please contact distributor.
	Disturbance by noise	Turn off and restart the detector. If such a symptom is observed frequently, take appropriate measures to eliminate the noise.
	Sudden change in the environment	When the environment (temperature, etc.) changes suddenly, the detector cannot adjust to it and is affected by it. In some cases, the detector triggers an indication alarm. Because the detector cannot be used under sudden and frequent environmental changes, any preventive actions should be taken to eliminate them by the user.

Symptom	Cause	Corrective action
Slow response	Deteriorated sensor sensitivity	Replace the sensor with a new one.
	Bended, clogged, or leaked suction tube or exhaust tube (only suction type)	Fix the defective parts.
	Condensation is formed inside the suction tube. (only suction type)	Fix the defective parts.
	Deteriorated sensor sensitivity (only suction type)	Replace the sensor with a new one.
Sensitivity calibration impossible	Improper calibration gas concentration	Use the proper calibration gas.
	Deteriorated sensor sensitivity	Replace the sensor with a new one.