

SI-310 (Built-in pyrolyzer)

Ex-proof pump type Fixed Gas Detector

SENKO



Description

SI-310 is a built-in pyrolyzer sampling type fixed gas detector to easily detect Hexafluorobutadiene, Octafluorocyclopentene, Difluoromethane and Fluoromethane gases through a sensor cartridge on a real-time basis. The measured gas concentration is transmitted in real time with an output of 4-20 mA and can be configured through three internal relays. In addition, users also can widely benefit from control set of RS-485/Ethernet/Bluetooth connection.

Key Feature

- Explosion-Proof structure
- Cartridge type sensor – Easy maintenance
- Built-in flow control function
- Large LCD with Digital Concentration Indication and Digital Flow Indication
- Control set of 4 Button / RS485 / TCP Ethernet / Bluetooth

Specification

Model	SI-310
Size	212mm(W) X 225mm(D) X 141.7mm(H)
Weight	6.5Kg
Operating voltage	DC : 24V ± 10% PoE : 36V~57V (Typical : 48V)
Flow rate	100 ~ 1,000 ml (Normal 300 ~ 500ml / min)
Power consumption	Approx. 15.0W @ +24VDC (Pyrolyzer Use 600mA@+24Vdc)
Measurement display	FND, gas concentration, flow rate, alarm, device faulty
Relay	Low Alarm, High Alarm, Fault Alarm (Rated 2.0A @ 30Vdc)
Analog Output signal	4-20mA
Digital communication	RS-485, TCP Ethernet (PoE)
Sampling distance	Length of input gas tube: up to 30m (FEP tube) Length of exhaust gas tube: up to 30m (FEP tube)
Input/Output tube	1/4" Teflon tube
Operating temperature	-40°C ~ 60°C
Certification	KCs: Ex db IIC T6 Gb
Control/Set	4 Button & RS485 & Ethernet & Bluetooth
Warranty period of the device	2 years
Warranty of sensor cartridge	1year
Remote interface	Ethernet (PoE), RS-485, HART(Optional)
Wiring	4 to 20mA / DC power / Relay : up to 14 AWG / Ethernet : RJ-45 Cat.5E
Pressure range	90 to 110KPa
Maximum sample flow	Max. 1,000 ml
Maximum sample pressure	6KPa

SI-310 (Built-in pyrolyzer)

Ex-proof pump type Fixed Gas Detector

SENKO

Gas		Sensor	Range	A1	A2	Resolution
Hexafluorobutadiene	C ₄ F ₆	Electrochemical	0~40ppm	10ppm	20ppm	1.5ppm
Octafluorocyclopentene	C ₅ F ₈	Electrochemical	0~40ppm	5ppm	10ppm	2.0ppm
Difluoromethane	CH ₂ F ₂	Electrochemical	0~120ppm	15ppm	30ppm	6.0ppm
Fluoromethane	CH ₃ F	Electrochemical	0~120ppm	15ppm	30ppm	8.0ppm