SP-1104 Plus

Toxic gas detector

The SP-1104 Plus is a fully explosion-proof toxic and hazardous gas detector featuring intelligent intrinsic safety sensor detection technology and a fixed installation design. The instrument incorporates temperature compensation and data storage capabilities, and supports detection of various gases.



Application Area

- Petroleum and Petrochemicals
- Metallurgy, Chemical Industry
- Fire safety, gas safety
- environmental protection
- Electricity, Communications
- Papermaking, Printing and Dyeing
- sewage disposal
- Food Production
- Research, Education
- national defense

Main Features

- By employing an intelligent processing platform and digital sensor technology, the system enables interchangeable sensors and remote operation.
  Line Calibration and Environmental Adaptation Functions
- Over more than a decade of industry applications, it has consistently been highly favored by users.
- Exhibits excellent selectivity, preventing interference from other gases with the target gas.

The instrument features over-range protection and reverse polarity protection to prevent hazards caused by improper manual operation.

- Suitable for extremely complex and harsh operating environments
- Features multiple electrical interfaces for user selection

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Technical Parameter

Instrument Parameter	
Detection Principle	Electrochemistry
Sample mode	Diffusion
Working power suppl	12~28VDC
Maximum power	30mA@24VDC
Output signal	4-20 mA, adjustable
Load impedance	600Ω
Detection Accuracy	±2% F.S. (Reference point)
Response Time (T90)	Depends on the gas being tested
Electrical Interface	3/4" NPT M (Optional: 3/4 "NPT F, 1/2" NPT F/M)
Way to install	2-inch vertical pipe / Wall-mounted installation
Levels of protection	IP65
Ambient temperature	-40°C to +70°C (maximum range)
Ambient humidity	10-95% RH (no condensation)
Ambient pressure	86kPa ~106kPa
Outline dimension	149mm × 155mm ×92mm(HWD)
Shell Material	Aluminium alloy
Weight	1.34kg
Explosion-proof Certification	Ex d ia I ICT6 Gb Ex iaD tD A21 T85°C

Standard Layout

- Main Unit of the Detector
- operating specification
- Standard Gas Hood
- Install Accessories

Optional Accessories

- reference gas
- Pressure relief valves, etc.

Installation Attachment

- Wire connector
- compression nut
- U-shaped mounting clamp
- Standard Gas Hood
- rain cover

Order Details

product model	tracer gas	Standard Range	Standard Range	product model	tracer gas	Standard Range	Standard Range
SP-1104Plus	CO	0-2000ppm	1ppm	SP-1104Plus	NO	0-250ppm	0.5ppm
SP-1104Plus	H2S	0-200ppm	0.1ppm	SP-1104Plus	NO2	0-20ppm	0.1ppm
SP-1104Plus	O2	0-30%vol	0.1%vol	SP-1104Plus	HCN	0-50ppm	0.5ppm
SP-1104Plus	NH3	0-100ppm	1ppm	SP-1104Plus	ClO2	0-1ppm	0.03ppm
SP-1104Plus	Cl2	0-50ppm	0.1ppm	SP-1104Plus	PH3	0-20ppm	0.1ppm
SP-1104Plus	SO2	0-20ppm	0.1ppm	SP-1104Plus	H2	0-1000ppm	1ppm
SP-1104Plus	ETO(A)	0-100ppm	1ppm	SP-1104Plus	ETO(B)	0-10ppm	0.1ppm
SP-1104Plus	ETO(C)	0-500ppm	10ppm	SP-1104Plus	HCl	0-30ppm	0.1ppm

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