



Hand held Single parameter Gas Detector

H190 Series

Gas Detector

For Atmosphere Toxic Gas, Industrial Gas Leakage Detection

Ref: H190gs_IntE
Date:2004-12-25

- Simple and convenient to pack on person
- Rapid Test
- 3.5 bit LCD Display
- TLV_TWA,HSE GN EH40/93, ACGIH 1983,MAK level alarm embedded
- Buzzer beep and LED flash to alarm
- Cell powered

Application

- Toxic and combustible gas leakage detect
- Safety protection

Functions

- 3 bit LCD Display
- User zero-adjust supported
- Optional air pump

Specifications

- Electronic unit: ADC resolution: 1/256 of FS
- General information of Electro-Chemical Sensor
- Repeatability: 1-5% FS
- Drift: <+/-10% /Year
- Response time T90: < 30s always, Max < 60s
- Sample pressure: Atmosphere $\pm 10\%$ (80-120kPa)
- Sample temperature: -10 °C to 50 °C
- Sensor life: 1-2 years.
- Definite data is varying from sensor to sensor in small extent



Environment Requirements:

Environmental Humidity:

Operating:10 to 90% RH, non-condensing

Storage:0 to 90% RH, non-condensing

Environmental Temperature Range:

N:Operating -10 °C to 50 °C

N:Storage -20 °C to 60°C

Supply: 6F22 9V Cell

Continuous running time: >48Hr for electrochemical sensor; >1Hr for MMOS or Combust Sensor.

Standby time: 7 days

Possible Available Sensors (Guaranteed supply in 7 days, big volume special)

Model	Sensor	Specification	Sensor Life	Information
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H-190-O ₂	4OX1	0~25%VOL	1y	
H-190-O ₂	A2	0~25%VOL	2y	
H-190-O ₂	KE	0~25%VOL	5y	
H-119-E _x		0~100%LEL	3y	
p-119-E _x		0~100%LEL	3y	Portable with pump sampling
H-119-E _x	4R	0~100%LEL	3y	
H-410-HC	NDIR	0~4.5%CH ₄ 0~1.5%C ₅ H ₁₂	5y	0-100%LEL of C ₅ H ₁₂ , Very good for detect of oil vapor, natural gas, coal gas, and other hydrocarbons.
H-410-CO ₂	NDIR	CO ₂ : 0-10000ppm; T:0-50°C;	5y	
H-410-CO ₂ -SK	NDIR	CO ₂ : 0-10000ppm; T:0-50°C;	5y	Accessories: PC software with cables.
H-410-CO ₂ -D	NDIR	CO ₂ : 0-10000ppm; T:0-50°C; Humidity:0-99%RH;	5y	Accessories: Includes RH, Temperature, datalogger, software and cables.
H-190-CO	4CO	0~500/1500ppm	2y	H ₂ S:45/10;SO ₂ :2.5/5;H ₂ :40/100;C ₂ H ₄ :N/D;Cl ₂ :-1/1;NO ₂ :-3/5;NO:10/35;
p-190-CO	4CO	0~500/1500ppm	2y	Portable with pump sampling; H ₂ S:45/10;SO ₂ :2.5/5;H ₂ :40/100;C ₂ H ₄ :N/D;Cl ₂ :-1/1;NO ₂ :-3/5;NO:10/35;
H-190-CO	4CF	0~500/1500ppm	2y	H ₂ S:0.5/15;SO ₂ :0/5;H ₂ :40/100;C ₂ H ₄ :50/100;Cl ₂ :0/1;NO ₂ :-1/20;NO:3/35;C ₂ H ₅ OH:0/200;
H-190-CO	3E500S	0~500ppm	2y	H ₂ S:2/20;SO ₂ :0/2;H ₂ :210/3000;C ₂ H ₄ :N/D;Cl ₂ :N/D;NO ₂ :0/10;NO:20/20;C ₂ H ₅ OH:0/600;VOC:0/600
H-190-CO	3E500O	0~500ppm	2y	H ₂ S:5.5/20;SO ₂ :N/D;H ₂ :60/3000;C ₂ H ₄ :30/10;Cl ₂ :N/D;NO ₂ :0/10;NO:28/20;C ₂ H ₅ OH:Yes;VOC:0/%
H-190-H ₂ S	4H	0~100/500ppm	2y	CO:6/300; SO ₂ :0.5/5;NO:0.4/35;NO ₂ :-1/5;H ₂ :5/10000;
H-190-H ₂ S	4HS	0~100/500ppm	2y	CO:2/300; SO ₂ :1/5;NO:0.7/35;NO ₂ :-1/5;H ₂ :10/10000;
H-190-H ₂ S	3E100S	0~100ppm	2y	NH ₃ :0/100;CO ₂ :0.1/5000;CO:2/200;Cl ₂ :0/10;C ₂ H ₄ :0/500;H ₂ :10ppm/1%;HCN:0.2/15;iC ₃ H ₇ OH:0/600;CH ₄ :-0.1ppm/2.2%;CH ₃ OH:0/1000;NO ₂ :-2/10;SO ₂ :3/20;
H-190-PH ₃	4PH	0-5/20ppm	2y	Phosphine
H-190-SiH ₄	4SL	0-500ppb	1y	Silane
H-120-SiH ₄	3E50	0-50ppm	18m	Silane; also sensitive to 0-2ppm GeH ₄
H-120-AsH ₃	2E1	0-500ppb AsH ₃ 0-1000ppb PH ₃	18m	Sensitive both to Arsine & phosphine;
H-120-AsH ₃	3E1	0-1000ppb	18m	
H-120-F ₂	3E1	0-1000ppb	18m	
H-190-HF	3E10	0-10ppm	1y	
H-190-HF	3E10s	0-10ppm	1y	
H-120-COCl ₂	3E1	0-1ppm	1y	Phosgene
H-190-SO ₂	4S	0~20/150ppm	2y	
H-190-SO ₂	AF	0~20/75ppm	2y	
H-190-SO ₂	AF	0~100/500ppm	2y	
H-120-CH ₃ SH	TBM2E	0~50mg/M ³ 0-14ppm	1y	Mercaptan
H-120-THT	THT3E	0~50mg/M ³	18m	
H-190-NO ₂	4ND	0~20/250ppm	2y	
H-190-NO	4NT	0~250/1000ppm	2y	
H-190-HCl	3E30	0-30ppm	2y	
H-190-Cl ₂	4CL	0~10ppm	2y	
H-190-Cl ₂	2E5	0~5ppm	2y	
H-190-Cl ₂	3E50	0~50ppm	2y	
H-120-CLO ₂	3E1	0~1ppm	2y	
H-190-H ₂	4HYT	0~2000ppm	2y	

H-190-H ₂	2E2000	0~2000ppm	2y	
H-190-H ₂	3E1%	0~1%;	2y	
H-190-H ₂	3E4%	0~4%;0-100%LEL	2y	
H-120-HCN	2E30	0~30ppm	18m	Main interference:H ₂ S
H-120-HCN	2E30F	0~30ppm	18m	Main interference:NO ₂
H-190-NH ₃	3E100SE	0~100ppm	2y	Also sensitive to amines.
H-190-NH ₃	3E1000s	0~1000ppm	2y	
H-120-N ₂ H ₄	2E1	0~1000ppb	1y	
H-190-O ₃	3E1	0-1000ppb	18m	interference: Cl ₂ ,ClO ₂ ,ClF ₃ ,F ₂ ,Br ₂ ,I ₂ ,NO ₂ ,and high NO,H ₂ S; Not suitable if Hydrazine, and high SO ₂ , NH ₃ existed
H-120-VOC	EC	0-100ppm	2y	Acetaldehyde,Acetylene,Acrylonitrile,Butadiene,Carbon disulphide, Carbon monoxide,Carbonyl sulphide, Dimethyl sulphide, Epichlorohydrin,Methy-ethyl-ketone,i-propanol,Ethanol,Ethylene,Ethylene Oxide, Formaldehyde, Methanol, Methyl mercaptan, Thiophane, Vinyl acetate,Vinyl chloride,Toluene,alpha-pinene,Ethylacetate

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