



To make people's working and living environment
Safe, Environmental, Healthy and intelligent !

Industrial Gas Detection

Henan Hanwei Electronics Co.,Ltd.



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Company Profile



Hanwei Sensor Industry Zone



Hanwei Instrument Industry Zone



Hanwei Internet of Things Industry Zone

Henan Hanwei Electronics Co., Ltd. established in 1998, is a professional Hi&New technology corporation focusing on the production, R&D, marketing of various sensors, instrumentations and the Internet of Things application solution. We are honorably to be awarded as “Key enterprises of national torch plan”, “The top 100 high-growth private enterprises” as well as “The demonstration of enterprise Informationalization System” by the government. In the year of 2009, Hanwei Electronics became the first and the only Listed enterprise in gas detection industry fields on the Growth Board in Shenzhen China **(SZ300007)**.

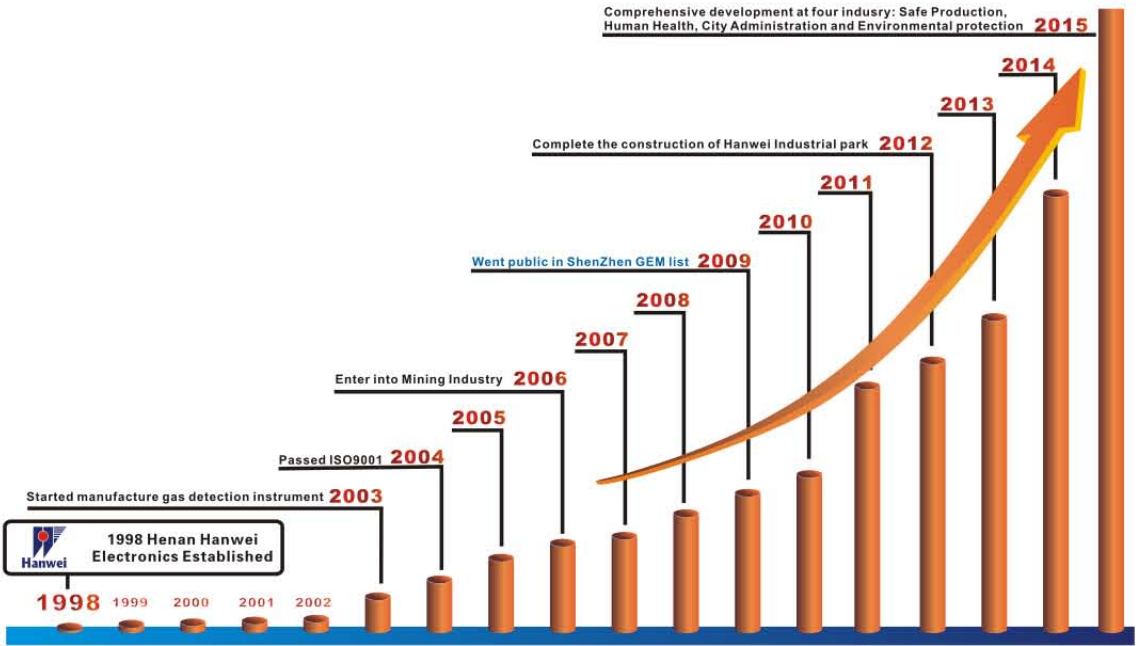
Hanwei has already formed the industrial scale related to all kinds of sensors and instruments like gas, pressure, flow, humidity and pyroelectric etc. With extensive production line and complete industry chain, our products have comprehensively covered many kinds of fields including but not limited to home safety, personnel protections, industrial online process monitors, environment analyzing, mining safety, road safety and industrial project monitoring system. The domestic market share of our sensors is No. 1, as high as 60% which makes HANWEI to be a leading and well-known gas detector manufacturer both in domestic and overseas markets. Now, our products are widely used in more than 100 countries.

Hanwei is committed to created a safe, environmental friendly and healthy working and living environment for the human beings. By focusing on sensor industry, intelligent instrument industry and Internet of Things industry, Hanwei will build a industry group. From customer demand, project solution, product realization, to installation & adjustment and after-sales service, we are always trying our best to satisfy our customers, and to create value and success for our customers.

Choose Hanwei, choose success!



ISO14001
ISO9001
OHSAS18001



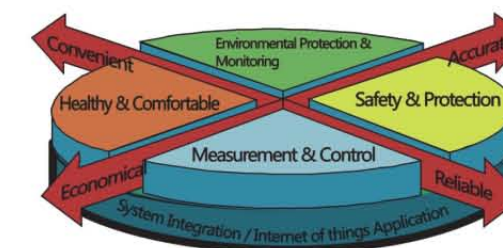
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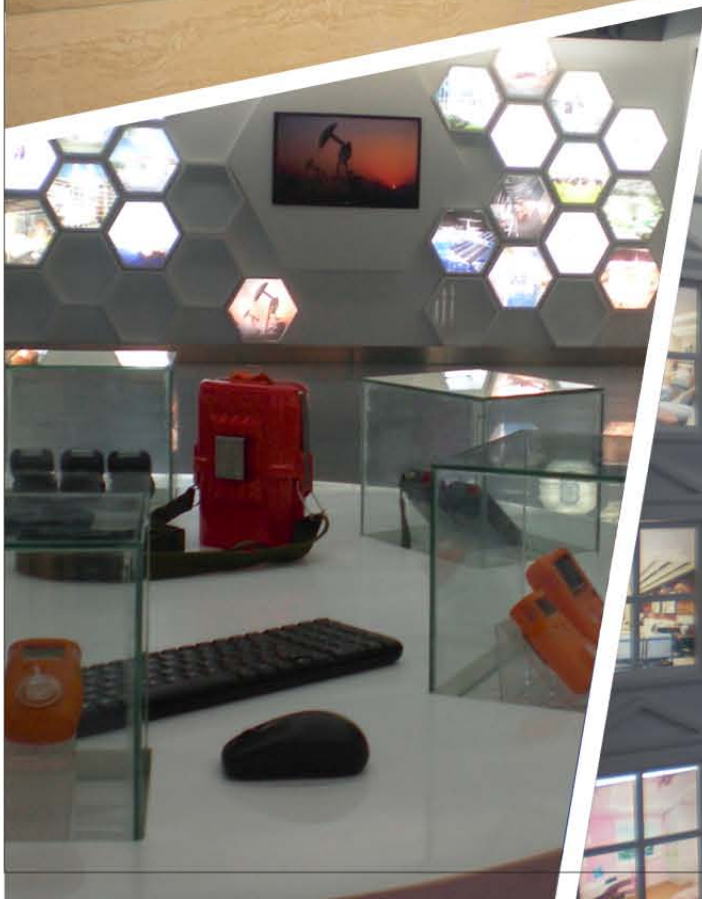
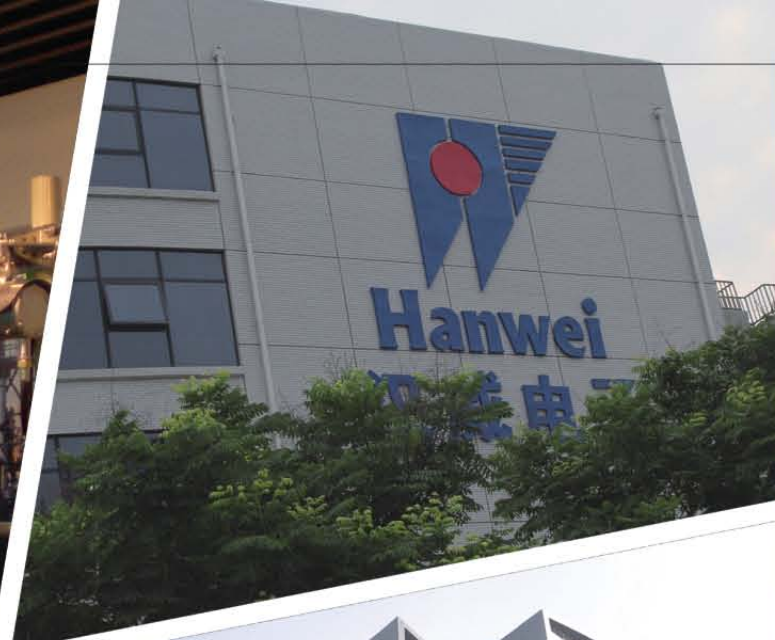


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BX166 Pen Type Gas Leak Detector

Portable Gas Detector

From maintenance-free single gas detector to feature-rich multi gas detector, Hanwei offers a full range of field proven portable monitoring instruments. Our portable gas detectors feature the same principles of cell phones and palm pilot—small, powerful, low cost devices. With matured sensor technology, our instruments deliver the lightest and most sophisticated protection from toxic gases, combustible gases and Oxygen hazards.



Brief Introduction

BX166 is suitable for checking the gas leakage from the gas pipelines or gas cylinders at your house.

Features

- Pen-type design, easy to carry
- Fast response
- Customized appearance acceptable



Specifications

- Target gas : Natural gas (CH₄) , LPG (C₃H₈) or other combustible gases
- Range: 0-100%LEL
- Sampling method: Natural diffusion
- Working temperature: -20°C~55°C
- Working humidity: <95%RH (no dews)
- Power voltage: DC3V (2 pcs 1.5V AA batteries)
- Low alarm: 20%LEL±5%LEL
- High alarm: 50%LEL±10%LEL
- Response time: <5s
- Alarm method: Visual and audible
- Alarm sound: ≥65dB
- Weight: About 40g



JL269 Portable Gas Leak Detector

Brief Introduction

JL269 portable gas leak detector is suitable for detecting gas leakage of combustible gases both in house environment and industrial environment, such as kitchen, gas station and other places where there maybe gas leakage.

Features

- LED or LCD display optional
- Short warm up time, Fast response
- Flexible gooseneck and adjustable display unit
- Low battery alert



Specifications

- Sensor type: Semi-conductor gas sensor
- Target gas : Natural gas (CH₄) , LPG (C₃H₈) , hydrogen gas(H₂) or other combustible gases
- Sampling method: Natural diffusion
- Response time:<5s
- Working temperature:-10℃~55℃
- Working humidity: ≤93%RH (no dews)
- Power voltage: 3.6V Ni-MH 2100mAh rechargeable battery
- Charging time: 4~7 hours
- Continuous working: ≥8h (normal working status)
- Sensor life: 2 years
- Dimension: 180mm×72mm×35.5mm
- Weight: About 300g



GPT100 Portable Gas Leak Detector

Brief Introduction

GPT100 is specially designed for checking the gas leakage from the gas pipelines or used by the gas company for daily maintenance. With LCD screen indication, it's very easy for users to know how much quantity the gas leaks.

Features

- Fast response
- Flexible gooseneck with sensor protection cover
- Low battery alert

Specifications

- Sensor type: Semi-conductor gas sensor
- Target gas : Natural gas (CH₄) , LPG (C₃H₈) , hydrogen gas(H₂) or other combustible gases
- Sampling method: Natural diffusion
- Response time:<5s
- Working temperature:-10℃~55℃
- Working humidity: ≤93%RH (no dews)
- Power voltage: 3.7V 2100mAh Lithium battery
- Charging time: 4~6 hours
- Continuous working: ≥8h (normal working status)
- Sensor life: 2 years
- Dimension: 170mm×77mm×33mm
- Weight: About 300g



BX171 Portable Single Gas Detector **ATEX approved**



Brief Introduction

BX171 is a portable gas detector which is mainly intended for individual use when entering into a confined space or when working in an environment where dangerous gases may exist and harm to personal safety. It is normally clipped on belt, lapel or breast pocket.

Features

- ATEX approved
- Intrinsically safe
- Low power consumption
- IP66/Waterproof and dustproof
- Two alarm level
- STEL alarm & TWA alarm
- Visual/audible/vibrating alarm
- Confidence beep
- Low battery alert

Specifications

- Sensor type: Electrochemical sensor
- Sampling method: Natural diffusion
- Working temperature: -20℃~50℃
- Working humidity: <95%RH (no dews)
- Accuracy: ±5% FS
- Response time: T90<30s
- Alarm sound: ≥80dB @ 1m
- Power source: DC3V CR123A Lithium battery
- Sensor life: 2 years
- Protection degree: IP66
- Explosion-proof grade: Exia II CT4
- Dimension: 91mm×58mm×34mm
- Weight: less than 100g

Detecting gas:

Target gas	Detecting range	First alarm level	Second alarm level	TWA level	STEL level
H ₂ S	0-100ppm	10ppm	15ppm	10ppm	15ppm
CO	0-1000ppm	35ppm	200ppm	35ppm	200ppm
CO	0-2000ppm	35ppm	200ppm	35ppm	200ppm
O ₂	0-30%vol	19.5%vol	23.5%vol	-	-

BX172 Portable Single Gas Detector

Features

- Built-in pump
- Intrinsically safe
- Large LCD display
- 2000 detected records including peak value
- Two alarm level
- Visual/audible/vibrating alarm
- Data uploading
- Password management
- Self-diagnostic for sensor, battery and internal circuit



Brief Introduction

BX172 is an Intrinsically safe instrument for detecting the concentration of combustible gases in the environment. With built-in pump, it can be widely used in the industries like city gas, petrochemical, fire fighting, shipbuilding, oil depot and gas station etc.



Specifications

- Sampling method: pump sampling
- Working temperature: -40℃~70℃
- Working humidity: <95%RH (no dews)
- Accuracy: ±5% FS
- Response time: T90<30s
- Alarm sound: ≥85dB @ 1m
- Power source: DC3.7V 1800mAh Lithium battery
- Charging time: 4h~6h
- Working time: ≥10h (continuous work, 20℃)
- Protection degree: IP65
- Explosion-proof grade: Exia II CT3
- Dimension: 130.5mm×74mm×42mm
- Weight: about 300g

BX176 Portable Single Gas Detector



Features

- Intrinsically safe
- 2000 detected records
- Two alarm level, adjustable
- Calibration point adjustable
- STEL & TWA alarm for toxic gases
- Visual/audible/vibrating alarm
- Self protection against high concentration combustible gas
- Low battery alert
- Data uploading
- Password management
- Self-test when power on
- Self-diagnostic and self correction function.



Specifications

- Sampling method: natural diffusion
- Working temperature:
 - 20℃~50℃ for toxic gas
 - 40℃~70℃ for combustible gas
- Working humidity: <95%RH (no dews)
- Accuracy: ±5% FS
- Response time: T90<30s
- Alarm sound: ≥85dB @ 1m
- Power source: DC3.7V 1300mAh Lithium battery
- Charging time: 4h~6h
- Continuous working time:
 - Combustible gas: ≥8h
 - Toxic gas: ≥300h (20℃)
- Ingress protection: IP65
- Explosion-proof grade: Exia II CT3
- Dimension: 104mm×60.8mm×30.5mm
- Weight: about 125g

E1000 Portable Single Gas Detector



Brief Introduction

E1000 is a portable single gas detector. It is applicable to gas leakage, underground pipelines, underground mines and other explosion-proof places

Features

- Intrinsically safe
- Smart interchangeable sensor module
- Calibration point adjustable
- Two alarm level
- Visual/audible/vibrating alarm
- STEL & TWA alarm for toxic gases
- Self protection against High concentration combustible gas
- Low battery alert
- Data uploading
- Password management
- Self-test when power on
- Self-diagnostic and self correction function
- GPS, GPRS and Man-down function optional



Specifications

- Sampling method: natural diffusion
- Working temperature:
 - 20℃~50℃ for toxic gas
 - 40℃~70℃ for combustible gas
- Working humidity: <95%RH (no dews)
- Accuracy: ±5% FS
- Response time: T90<30s
- Alarm sound: ≥85dB @ 1m
- Power source: DC3.7V 1800mAh Lithium battery
- Charging time: 4h~6h
- Continuous working time:
 - Combustible gas: ≥8h
 - Toxic gas: ≥300h (20℃)
- Ingress protection: IP66
- Explosion-proof grade: Exdib II CT4
- Dimension: 108.4mm×61mm×36mm
- Weight: about 191g

BX616 Portable 4-gas detector

Features

- Intrinsically safe
- 100,000 detected records including peak value
- Calibration point adjustable
- Two alarm level for each sensor channel
- STEL & TWA alarm for toxic gases
- Visual/audible/vibrating alarm
- Self protection against high concentration combustible gas
- Low battery alert
- Confidence beep
- Data uploading
- Password management
- Self-test when power on
- Self-diagnostic and self correction function

Brief Introduction

BX616 is a portable multi gas detector for continuous detecting of CH₄, CO, O₂ and H₂S, it is applicable to gas leakage, underground pipelines, underground mines and other explosion-proof places



Specifications

- Sampling method: natural diffusion
- Working temperature:
 - 20℃~50℃ for toxic gas
 - 40℃~70℃ for combustible gas
- Working humidity: <95%RH (no dews)
- Accuracy: ±5% FS
- Response time: T90<30s
- Alarm sound: ≥85dB @ 1m
- Power source: DC3.7V 1800mAh Lithium battery
- Charging time: 4h~6h
- Working time: ≥8h (continuous work, 20℃)
- Ingress protection: IP66
- Explosion-proof grade: Exia II CT3
- Dimension: 120mm×68mm×30mm
- Weight: about 220g

Gas	Range	Low alarm	High alarm	TWA	STEL
LEL	0-100%LEL	20%LEL	50%LEL		
H ₂ S	0-100ppm	10ppm	15ppm	10ppm	15ppm
CO	0-1000ppm	35ppm	200ppm	35ppm	200ppm
O ₂	0-30%vol	19.5%vol	23.5%vol		



E6000 Portable 6-gas detector

Features

- Intrinsically safe
- Smart interchangeable sensor module
- MOS, Catalytic, Electrochemical, Infrared, PID sensors selectable
- Built-in pump optional
- 100,000 detected records available including peak value
- Calibration point adjustable
- Two alarm level for each channel
- STEL & TWA alarm for toxic gases
- Visual/audible/vibrating alarm
- Self protection against high concentration combustible gas
- Low battery alert
- Confidence beep
- Data uploading
- Password management
- Self-test when power on
- Self-diagnostic and self correction function
- GPS, GPRS and Man-down function optional



Specifications

- Sampling method: natural diffusion or built-in pump sampling
- Working temperature:
 - 20℃~50℃ for toxic gas
 - 40℃~70℃ for combustible gas
- Working humidity: <95%RH (no dews)
- Accuracy: ±5% FS
- Response time: T90<30s
- Alarm sound: ≥80dB @ 1m
- Power source: DC3.7V 6600mAh Lithium battery
- Charging time: 4h~6h
- Working time:
 - 8-300h depending on different configuration
- Ingress protection: IP66
- Explosion-proof grade: Exia II CT4
- Dimension: 168mm×91mm×45mm
- Weight: about 500g



PP01 Gas Sampling Pump



Brief Introduction

PP01 is a portable gas sampling pump, used for sampling gas for the gas detection purpose. It is small size, light weight and easy for installation.

Features

- Good shock resistance and impact resistance
- Easy to replace the filter, easy for maintenance.
- Good sealing performance
- Pump blocked indication alert



Specifications

- Power: DC3V±30% (2pcs of AA DC1.50V batteries)
- Electric current: <100mA
- Sampling flow: ≥320ml/min
- Working temperature: -10℃~60℃
- Working humidity: ≤95%RH
- Housing material: ABS
- Dimension: 42X27X160(mm)
- Weight: About 140g(including batteries)



Fixed Gas Monitor

Hanwei's 17+ years gas detection experience has been instrumental in developing a range of control panels to suit all applications. All of our fixed gas monitoring systems can be interfaced with any 4-20mA gas detectors and our own RS485 gas detectors. They provide a high accurate and reliable performance in various applications, such as industrial, commercial, residential, institutional etc.

CP01 Fixed Gas Detector



Features

- Economic type with stable performance
- Small size, easy to install
- 4-20mA or RS485 signal output
- Two relay output for 4-20mA type



Specifications

- Sampling method: natural diffusion
- Working voltage:DC24V±25%
- Power consumption: 2W
- Working temperature:
 - 20℃~50℃ for toxic gas
 - 40℃~70℃ for combustible gas
- Working humidity: <95%RH (no dews)
- Accuracy: ±5% FS
- Response time: T90<30s
- Ingress protection: IP65
- Signal output: 4-20mA or RS485
- Environmental air pressure: 86kPa~106kPa
- Cable required: ≥1.5 mm²×3 core cable (4-20mA type)
≥1.5 mm²×4 core cable (RS485 type)
- Transmission distance: ≤1000m
- Dimension:165mm×118mm×62mm
- Weight: ≤500g

TC100N Fixed Gas Detector **ATEX approved**



Features

- ATEX approved
- Explosion proof design, suitable for hazardous area
- Modular sensor,easy for replacement
- 4-20mA or RS485 signal output
- Two relay output for 4-20mA type



Specifications

- Sampling method: natural diffusion
- Working voltage:DC24V±25%
- Power consumption: 2W
- Working temperature:
 - 20℃~50℃ for toxic gas
 - 40℃~70℃ for combustible gas
- Working humidity: <95%RH (no dews)
- Accuracy: ±5% FS
- Response time: T90<30s
- Ingress protection: IP65
- Explosion proof degree: Exd II CT6
- Signal output: 4-20mA or RS485
- Environmental air pressure: 86kPa~106kPa
- Connecting thread: G1/2
- Cable required: ≥1.5 mm²×3 core cable (4-20mA type)
≥1.5 mm²×4 core cable (RS485 type)
- Transmission distance: ≤1000m
- Dimension:196mm×186mm×68.5mm
- Weight: about 1200g

BS03 Fixed Gas Detector **ATEX approved**



Features

- ATEX approved
- LED display
- Easy operation by infrared remote controller
- Two adjustable alarm level
- Modular sensor,easy for replacement
- Explosion proof design, applicable to hazardous area
- Two relay output for 4-20mA type

Specifications

- Sampling method: natural diffusion
- Working voltage:DC24V±25%
- Power consumption: 2W
- Working temperature:
 - 20℃~50℃ for toxic gas
 - 40℃~70℃ for combustible gas
- Working humidity: <95%RH (no dews)
- Accuracy: ±5% FS
- Response time: T90<30s
- Ingress protection: IP65
- Explosion proof degree: Exd II CT6
- Signal output: 4-20mA or RS485
- Environmental air pressure: 86kPa~106kPa
- Connecting thread: G3/4
- Cable required: ≥1.5 mm²×3 core cable (4-20mA type)
≥1.5 mm²×4 core cable (RS485 type)
- transmission distance: ≤1000m
- Dimension:210mm×200mm×105mm
- Weight: about 2kg



GT-WD1200 Fixed Gas Detector



Features

- Smart interchangeable sensor module
- Easy operation by infrared remote controller
- Visual & audible alarm
- Explosion proof design, applicable to hazardous area
- Two passive relay output for 4-20mA type
- Hart protocol optional



Specifications

- Sampling method: natural diffusion
- Working voltage:DC24V±25%
- Power consumption: ≤3W
- Working temperature:
 - 20℃~50℃ for toxic gas
 - 40℃~70℃ for combustible gas
- Working humidity: <95%RH (no dews)
- Accuracy: ±5% FS
- Response time: T90<30s
- Ingress protection: IP65
- Explosion proof degree: Exd II CT6
- Signal output: 4-20mA or RS485
- Environmental air pressure: 86kPa~106kPa
- Connecting thread: G3/4
- Cable required:
 - ≥RVVP 1.5 mm²×3 core cable (4-20mA type)
 - ≥RVVP 1.5 mm²×4 core cable (RS485 type)
- Transmission distance: ≤1000m
- Dimension:204 mm×220 mm×105 mm
- Weight: about 2kg



GT-WD2200 Fixed Gas Detector



Features

- With LCD display
- Smart interchangeable sensor module
- Easy operation by infrared remote controller
- Visual & audible alarm
- Explosion proof design, applicable to hazardous area
- Two passive relay output for 4-20mA type
- Hart protocol optional



Specifications

- Sampling method: natural diffusion
- Working voltage:DC24V±25%
- Power consumption: ≤3W
- Working temperature:
 - 20℃~50℃ for toxic gas
 - 40℃~70℃ for combustible gas
- Working humidity: <95%RH (no dews)
- Accuracy: ±5% FS
- Response time: T90<30s
- Ingress protection: IP65
- Explosion proof degree: Exd II CT6
- Signal output: 4-20mA or RS485
- Environmental air pressure: 86kPa~106kPa
- Connecting thread: G3/4
- Cable required:
 - ≥RVVP 1.5 mm²×3 core cable (4-20mA type)
 - ≥RVVP 1.5 mm²×4 core cable (RS485 type)
- Transmission distance: ≤1000m
- Dimension:204 mm×220 mm×105 mm
- Weight: about 2kg



WD6200 Fixed Gas Detector



Features

- With LCD display
- Smart interchangeable sensor module
- Easy operation by infrared remote controller
- Explosion proof design, applicable to hazardous area
- Three passive relay output
- Calibration remind function
- Hart protocol optional

Specifications

- Sampling method: natural diffusion
- Working voltage:DC24V±25%
- Power consumption: ≤5W
- Working temperature:
 - 20℃~50℃ for toxic gas
 - 40℃~70℃ for combustible gas
- Working humidity: <95%RH (no dews)
- Accuracy: ±5% FS
- Response time: T90<30s
- Ingress protection: IP65
- Explosion proof degree: Exd II CT6
- Signal output: 4-20mA
- Environmental air pressure: 86kPa~106kPa
- Connecting thread: G3/4 or G1/2
- Cable required: ≥RVVP 1.5 mm²×3 core cable
- Transmission distance: ≤1000m
- Dimension:293 mm×263mm×108mm
- Weight: about 2.7kg



KB6000 III Gas Control Panel

KB6000 III Gas Control System

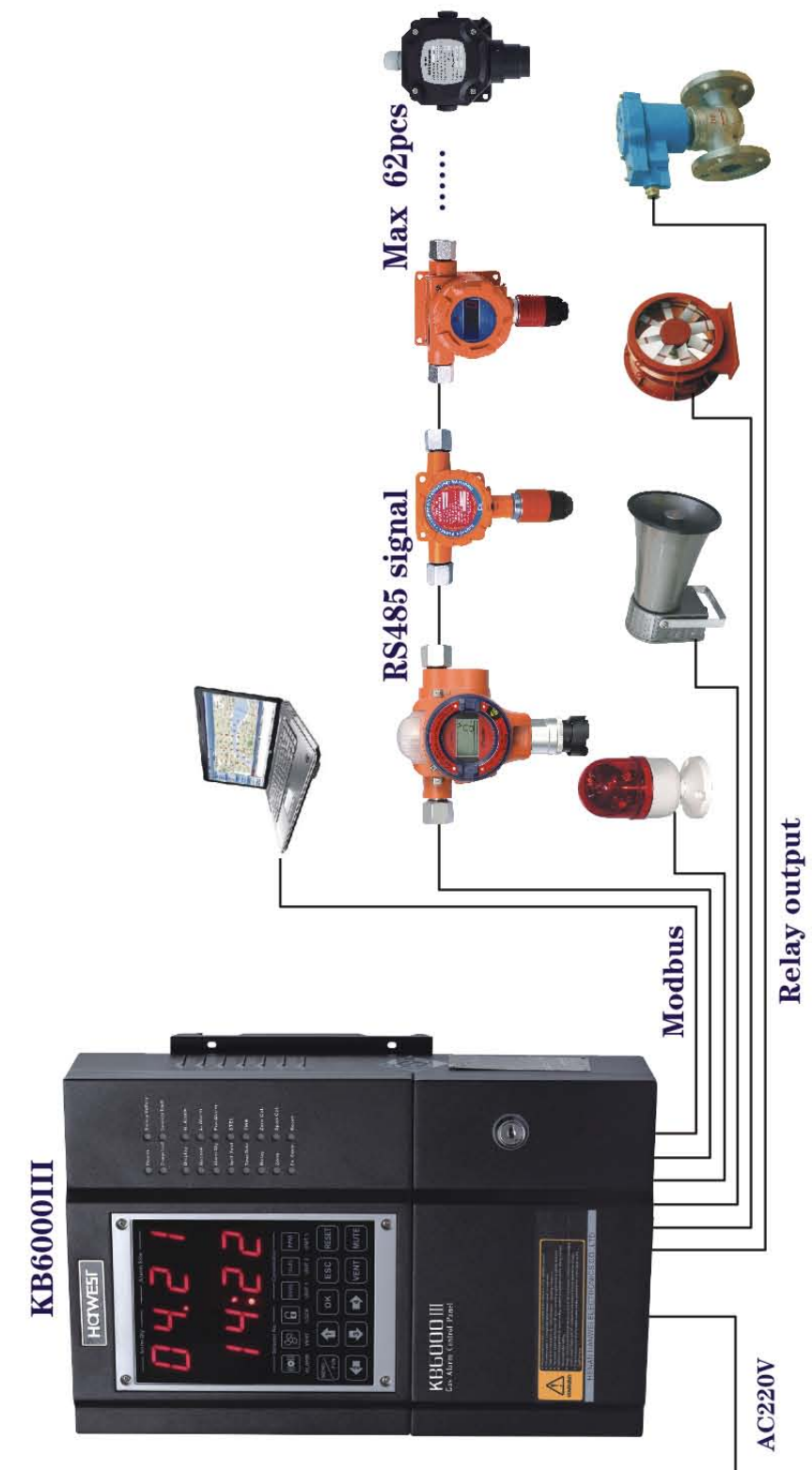


Features

- LED display
- RS485 signal input
- Auto-search after power on
- 6 passive relay output
- Intelligent system including :
 - Signal sampling, data analysis, fault detection,
 - Power management, alarm indication and external device's activation

Specifications

- Power voltage: AC220V±15%
- Power consumption: ≤15W
- Detector connected: ≤62 pcs
- Working temperature: -10℃~50℃
- Working humidity: ≤95%RH (no dews)
- Ingress protection: IP54
- Alarm method: visual and audible alarm
- Alarm sound intensity: ≥100db @ 1m
- Transmission distance: ≤1000m
- Cable required:RVVP 1.5 mm²×4 core cable
- Installation method: wall mounted
- Dimension: 390mm×280mm×116.2mm
- Weight: about 7.4kg



KB2160 Gas Control Panel

KB2160 Gas Control System



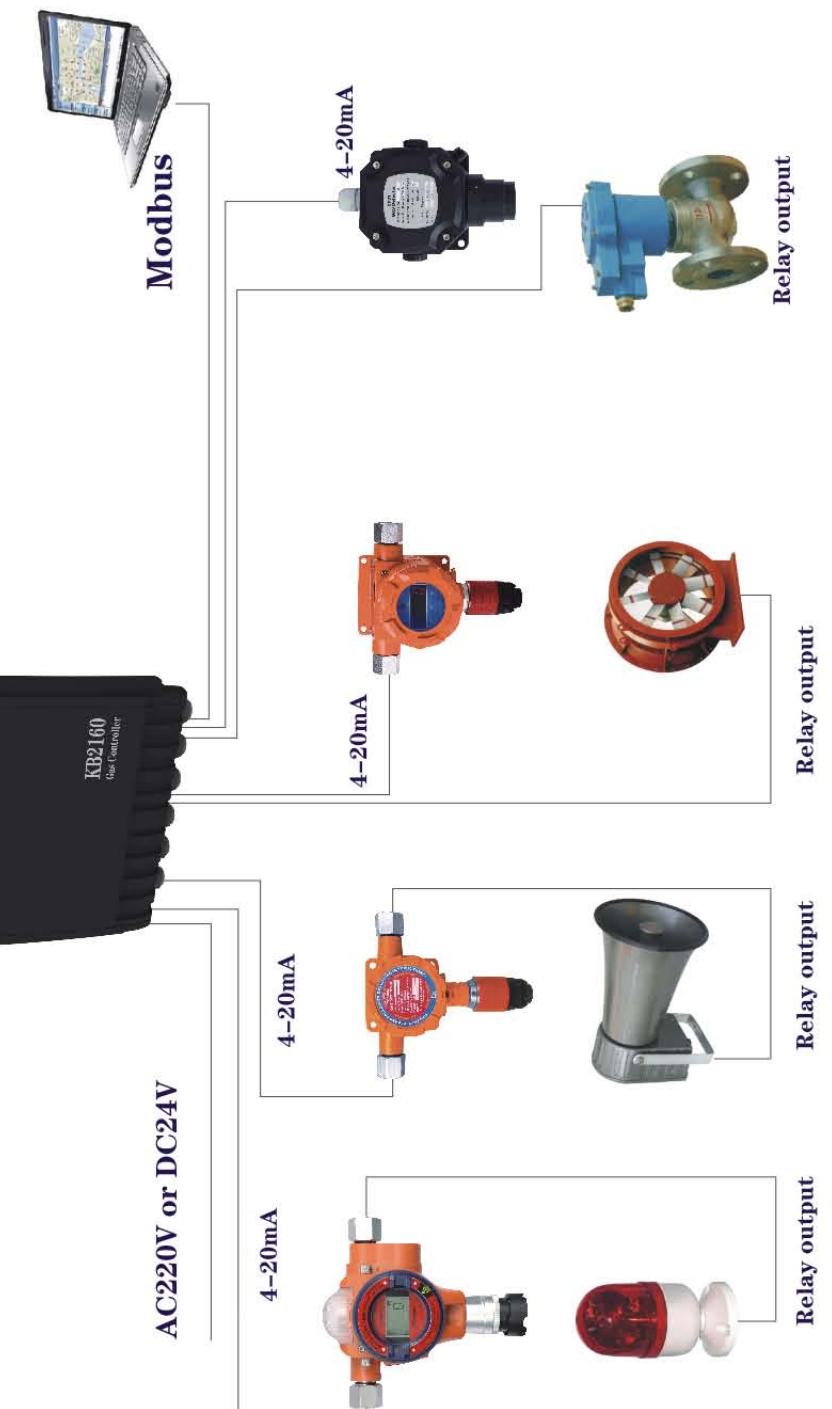
Brief Introduction

KB2160 is a single-point gas control panel. Each channel can connect with 1pc of 4-20mA gas detector. With on-site audible and visual alarming signals, it's very obvious for the users to know the gas leakage details in the working place.



Specifications

- Power supply: AC 220V±33V or DC24V±25%
- Consumption: ≤10W
- Output voltage: DC 24V±6V
- Ingress protection: IP54
- Working temperature: -10℃~50℃
- Working humidity: ≤95%RH
- Indication: LED lights and LCD screen
Different alarm signals for gas leak, fault etc.
- Audible alarm: 65dB--115dB at 1 meter
- Relay output: passive output
- Cable required:RVVP 1.5 mm²×3 core cable
- Installation method: wall mounting type or cabinet type
wall mounting type for 2,4,6 & 8 channels together.
cabinet type for 10 channels together



RS119 Annunciator



Brief Introduction

RS119 explosion-proof Annunciator is specially designed for gas detectors and other equipment which require function of audio and visual alarm. It is the best suitable choice for gas detectors and other security alarm equipment.

Features

- Visual alarm
- Audible alarm
- Made by stainless steel material
- Explosion-proof design, applicable to hazardous area
- Compact design, easy for installation

Specifications

- Power : DC24V±6V
- Current : ≤60mA
- Light intensity : ≥2400mcd
- Sound intensity : ≥85dB
- Working life : > 3 years
- Working temp.: -40℃~70℃
- Working humidity: ≤95%RH
- Material: Stainless steel S304
- Installing screw: M22×1.5(cm)
- Protection degree: IP65
- Explosion-proof: Ex d mb II C T6 Gb
- Dimension: 65×40×81(mm)
- Weight: about 0.3 Kg



OPGD1000 Open Path Methane Detector

Features

- Advanced technology of TDLAS
- Great repeatability and selectivity
- High accuracy and sensitivity
- Excellent anti-interference to wind, sand, shock and water vapor
- Long life span and low maintenance cost



Specifications

- Range: 0~100%LEL · m
- Working distance: 120m
- Working humidity: 0~95%RH
- Working temperature: -20℃ ~ +50℃
- Zero drift: ±5%LEL · m
- Error rate: ≤±2%F.S
- Explosion-proof: Exd IIC T6
- Ingress protection: IP66
- Housing: 316L stainless steel
- Signal output: 4 ~ 20mA or RS485

