Dot type toxic gas detector MP840



VOXI MP840 is a point-type toxic gas detector with modular design, intelligent sensor detection technology, intrinsic safety plus flame-proof and explosion-proof design, and fixed installation. Its intelligent processing platform and Smart sensor technology realize the functions of sensor interchange, off-line calibration and zero self-calibration. Three-wire system 4~20mA analog and RS485 digital signal output, optional wireless output and other signal transmission mode, programmable switching output module, customized according to user needs, but also support output signal fine-tuning and other functions, convenient system networking and maintenance. Support for Hart protocol as well as Sil3 certification is widely available.Used in oil and gas, petrochemical, chemical, metallurgy, pharmaceutical, semiconductor and other industries.

Universal transmitter platform

- Support for more than 30 gas sensor platforms
- Standard three wire 4 ~ 20mA, RS485 Modbus, wireless and other output signal mode can be selected
- Aluminum alloy or stainless steel case
- Three sets of programmable relays are standard
- The detection concentration range can be adjusted
- Wall or pipe installation, easy and flexible

mPower sensor technology

- 7R Smart Smart sensor module, anti-poisoning
- Sensor support off-line calibration, sensor plug and play
- Sensor self-diagnosis technology, to ensure the maximum effective operation of the sensor, reduce the cost of use
- Intelligent temperature and zero compensation algorithm
- Automatic reminder of expiration of calibration

Security guarantee

- Non-invasive infrared remote control
- Integrated sound and light alarm
- Optional standard Hart protocol for remote diagnosis and setting
- IP67 protection level
- Sil3 Security level authentication
- Easy to clean sensor and light source
- Fault code, can instantly restore factory Settings

MP840 specifications and instrument indicators

Configuration	Intelligent (Smart) electrochemical sensor module
Sampling mode	Diffused
Protection class	IP66
Working power supply	9-30VDC
Ambient temperature	-40℃~+70℃ (limit value) -40℃~+55℃ (typical value)
Ambient humidity	10~95%RH (no condensation)
Environmental pressure	86kPa ~106kPa
Output signal	4-20mA and RS485 (Standard) 3 sets of relays (standard) Wireless (Optional)
Electrical interface	（3/4” NPT）*4+M28*1
Security authentication	IECEx：Ex d IIC T6 Gb（pending） Ex tb IIIC T80℃ Db China explosion-proof certification: Ex d IIC T6
Other certification	SIL3，HART（pending）
Metrological certification	CPA
Size	180mm×213mm×127mm（W×H×D）
Weight	1.5kg
Shell material	Aluminium alloy
Installation mode	Riser/wall mounting
Wireless transmission distance (LoRa)	Greater than 2000 meters
Warranty	The whole machine is guaranteed fo 1 years

Sensor	Range	Resolution
Carbon monoxide (CO)	0-500 ppm	1ppm
	0-1000ppm	1ppm
	0-2000ppm	1ppm
Hydrogen sulfide (H2S)	0-200ppm	0.1ppm
	0-1000ppm	1ppm
Oxygen (O2)	0-30%Vol	0.1%Vol
Ammonia (NH3)	0-100ppm	1ppm
	0-1000ppm	1ppm
Chlorine gas (Cl2)	0-50ppm	0.1ppm
Nitric oxide (NO)	0-250ppm	1ppm
Nitrogen dioxide (NO2)	0-20ppm	0.1ppm
Sulfur dioxide (SO2)	0-20ppm	0.1ppm
Hydrogen cyanide (HCN)	0-100ppm	0.1ppm
Phosphine (PH3)	0-20ppm	0.01ppm
	0-1000ppm	1ppm
Hydrogen gas（H2）	0-1000ppm	1ppm
Hydrogen chloride（HCl）	0-30ppm	0.1ppm
Ethylene oxide (ETO)	0-100ppm	1ppm
Phosgene (COCl2)	0-1ppm	0.01ppm
Chlorine dioxide (ClO2)	0-1ppm	0.01ppm
Fluorine gas (F2)	0-5ppm	0.01ppm
Hydrogen fluoride (HF)	0-10ppm	0.1ppm
Formaldehyde (HCHO)	0-100ppm	0.1ppm
Acrylonitrile (C3H3N)	0-100ppm	0.1ppm
Carbon monoxide (Resist H2)	0-1000ppm	1ppm
Methyl mercaptan (CH3SH)	0-10ppm	0.1ppm

Standard configuration

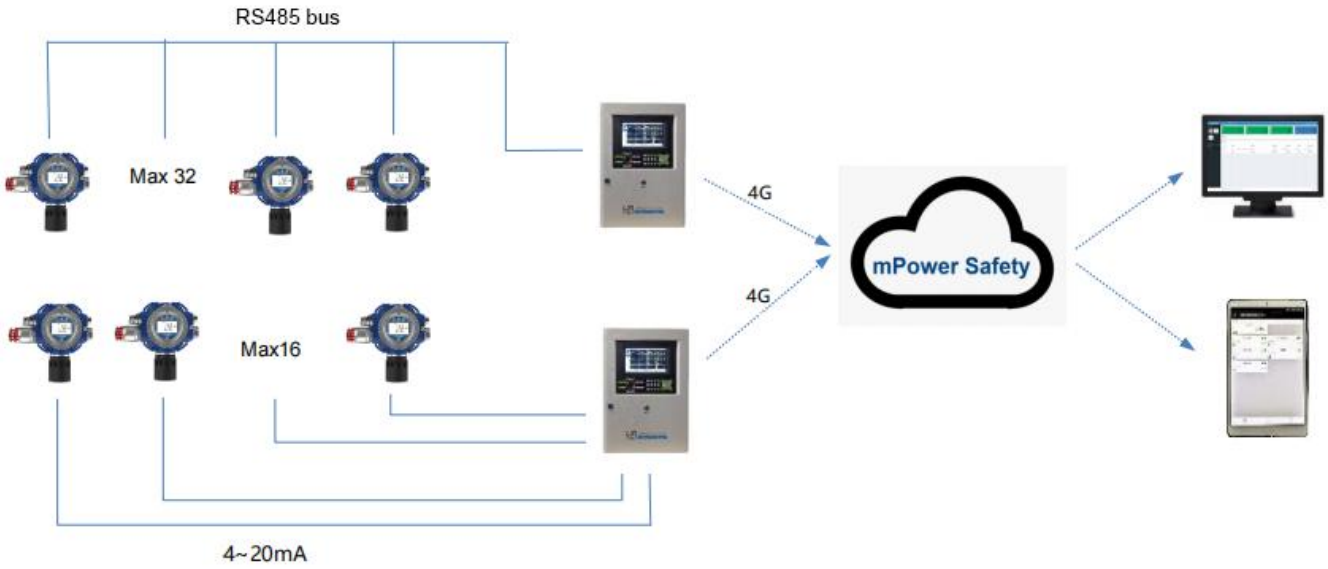
- Main machine of detector
- Quick operation guide
- Rain cover
- Calibration cover
- Tighten the nut
- Mounting accessories
- Plug
- Certificate of qualification

Optional accessories

- Sound and light alarm
- Infrared remote control
- HART module
- Wireless module

MP840 system diagram

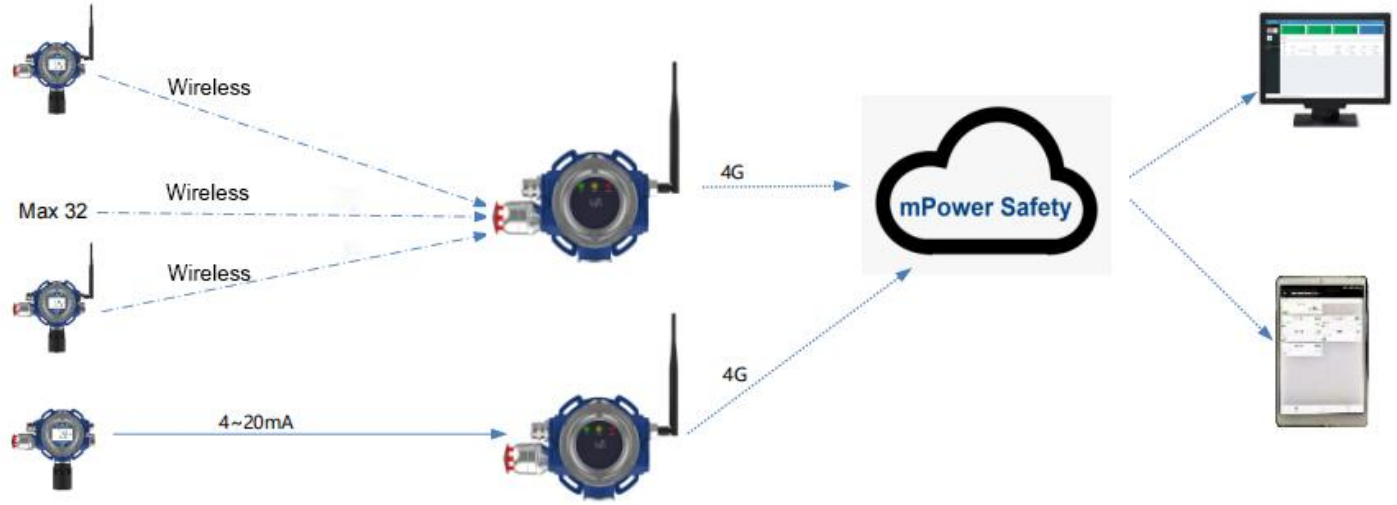
Connection mode one



Connection mode two

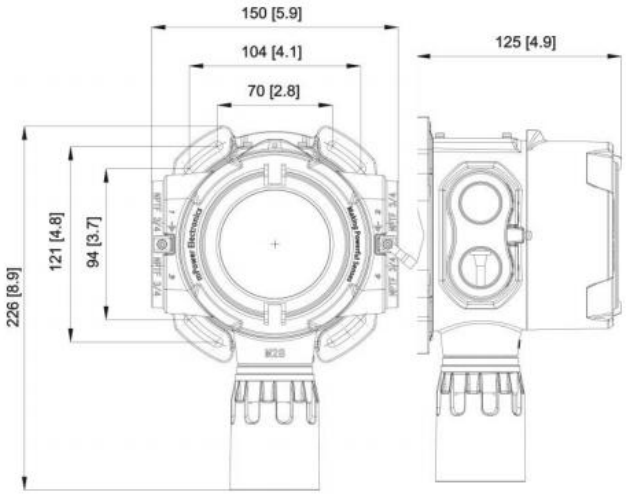


Connection mode three

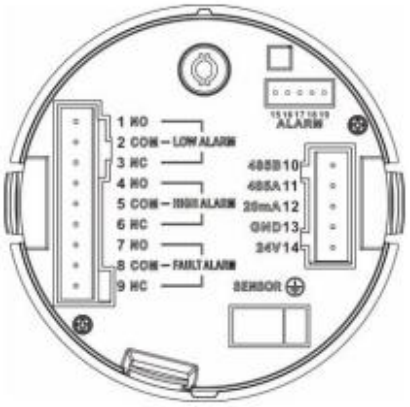


Dimensions and installation diagram of MP840

Dimensions of MP840 (Unit: mm)



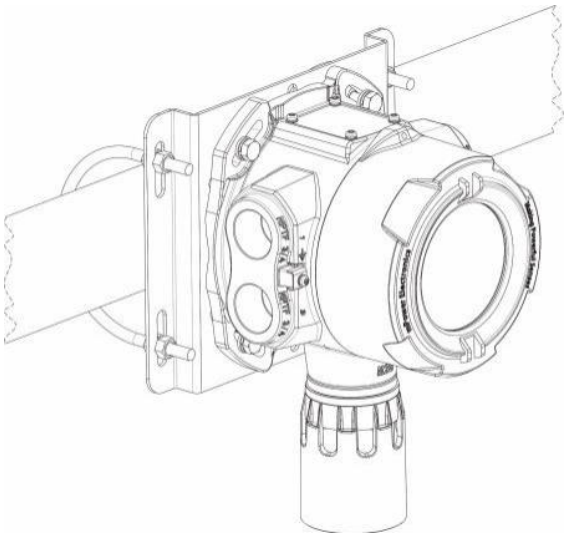
MP840 wiring diagram



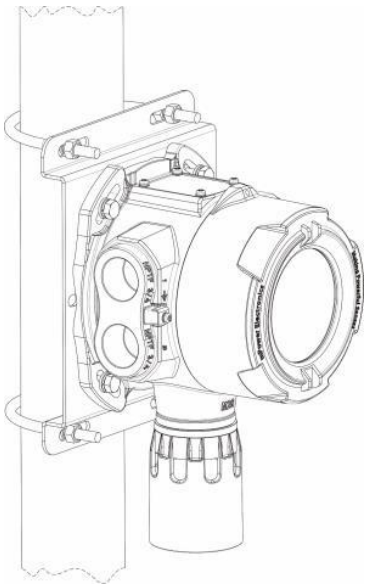
15	Positive electrode of power supply
16	Negative terminal of power supply
17	Faulty terminal of acousto-optic alarm
18	Acousto-optic alarm low terminal
19	Acousto-optic alarm high signal erminal
10	RS485B terminal
11	RS485A terminal
12	4~20mA signal output terminal
13	Negative terminal of power supply
14	Positive electrode of power supply

Low switch quantity normally open contact	1
Understating the switching quantity of common contacts	2
Low switch value normally closed contact	3
High switch quantity normally open contact	4
High switch quantity common contact	5
High switch value normally closed contact	6
Fault switch quantity normally open contact	7
Fault switch quantity common contact	8
Fault switch is normally closed contact	9

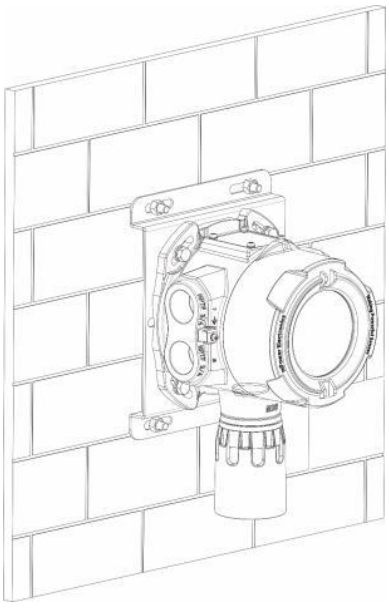
MP840 installation diagram



Hold the transverse pipe installation



Install the standpipe



Wall mounting

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