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Chang Ai · Gas Analyzers Specialist

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气体检测解决方案

Gas detection solution

昶艾科技
产品 ‖ 方案制定 ‖ 技术支持

“一站式分析测量解决方案”为您提供先进的、专业的、可信赖的分析测量系统

“One-stop analysis and measurement solutions” to provide you with advanced, professional, reliable analysis and measurement system

CI-EM601 便携扩散式单一气体检测仪

CI-EM601 Portable diffusion single gas detector

CI-EM601便携式气体检测仪主要功能是用于准确检测气体泄露或气体浓度超标报警。气体检测的主要检测原理有：电化学、低功耗红外等。广泛应用于消防、应急救援、受限空间、石油、化工、冶金、炼化、燃气、仓储、医药等场合。

The main function of CI-EM601 portable gas detector is to accurately detect gas leaks or gas concentration exceeding the standard alarm. The main detection principles of gas detection include electrochemistry, low-power infrared, etc. Widely used in firefighting, emergency rescue, confined spaces, petroleum, chemical, metallurgical, refining, gas, warehousing, medicine and other occasions.

小巧轻便
Small and light

安全防爆
Safety explosion-proof

超低功耗
Ultra low power consumption

扩散检测
Diffusion detection

产品特点

- 超低功耗设计，免充电，工作时间1-2年；
- 扩散式测量；
- 防火防静电抗高频辐射；
- 单位切换，单位可选：umol/mol、ppm、mg/m3、%Vol、%LEL；
- 支持数据存储；
- 3按键便捷操作；
- 通讯接口：红外；
- 电池容量1650mAh；
- 跌倒报警；
- 数据恢复功能，可部分或全部恢复出厂数据。

Product features

- Ultra low power consumption design, no charging, working time of 1-2 years;
- Diffusion measurement;
- Fireproof, anti-static, and anti high-frequency radiation;
- Unit switching, optional units: umol/mol, ppm, mg/m3,% Vol,% LEL;
- Support data storage;
- 3 buttons for convenient operation;
- Communication interface: infrared;
- Battery capacity 1650mAh;
- Falling alarm;
  Data recovery function, which can partially or completely restore factory data.

技术参数 Technical index

检测气体 Detection gas	单一气体（一氧化碳CO、硫化氢H_2S、氧气O_2、可燃气体Ex、二氧化碳CO_2等） Single gas (carbon monoxide CO, hydrogen sulfide H_2S, oxygen O_2, combustible gas Ex, carbon				
应用场合 Applications	石油、化工、管网巡检、受限空间、医药、环保、仓储等 Petroleum, chemical industry, pipeline network inspection, restricted space, medical, environmental protection, warehouse, etc.				
检测范围 Detection range	0～1、10、100、1000、5000、50000ppm、100%LEL、20%、50%、 100%Vol可选，其他量程可订制 0-1, 10, 100, 1000, 5000, 50000ppm, 100MG/L, 100%LEL,20%, 50%, 100%Vol optional, other range can be customized				
检测原理 Detection principle	电化学、低功耗红外等，根据气体类型、量程、现场环境和用户需求而定 Electro-chemical, low power infrared, etc., according to the gas type, range, field environment and user requirements				
传感器寿命 Sensor life	电化学原理大于2～3年，红外5年以上 Electro-chemical principle is more than 2~3 years, infrared more than 5 years				
工作环境 Working environment	温度-20°C~+70°C，相对湿度≤95%RH (非凝露场合) Temperature -20°C~+70°C, Relative humidity ≤95%RH (non-condensing)				
不确定度 Uncertainty	≤±2%	线 性 度 Linearityuracy	≤±2%	响应时间 Response time	T_{90}≤30s

产品外形 Shape of the product

CI-EM604 便携扩散四合一气体检测仪

CI-EM604 Portable compound diffused gas detector

CI-EM604系列便携式扩散式复合型气体检测仪用于:快速检测多种气体浓度、温湿度测量并超标报警,有需要检测气体浓度的场合。采用2.31寸高清彩屏实时显示,采用进口著名品牌的气体传感器,先进的电路设计、成熟的内核算法处理,独特的外形设计,取得了多项软件著作和外观等专利。

CI-EM604 series portable diffused compound gas detector used for: rapid detection of a variety of gas concentration, temperature and humidity measurement and exceeding the alarm occasions.CI-EM604 adopts 2.31 inch HD color screen for real-time display, and adopts imported famous brand gas sensor. Swiss high precision capacitive digital temperature and humidity sensor is used. Advanced circuit design, mature kernel algorithm processing, unique shape design, has obtained a number of software works and appearance patents.

扩散检查 Diffusion detection

安全防爆 Safety explosion-proof

数据储存 Data storage

高清彩屏 HD color screen

产品特点

- 可选配对应传感器，同时检测1~6种因子（1-4种气体浓度+温湿度），具体检测种类取决于仪器内部传感器配置；
- 大容量数据存储功能，支持多种存储方式；
- 多种通讯接口；
- 图形化显示：以曲线形式反映一段时间内气体浓度变化走势；
- 可设置是否显示最大值、最小值、平均值；
- 误操作识别功能，浓度校准误操作自动识别并阻止，能避免人为因素造成的不良；
- 零点自动跟踪，长期使用不受零点漂移影响。

Product features

- The corresponding sensor can be selected to detect 1-6 parameters (1-4 gas concentration + temperature and humidity) at the same time. The specific detection type depends on the sensor configuration inside the instrument;
- Large-capacity data storage, supporting various storage modes;
- Multiple communication interfaces;
- Graphical display: in the form of a curve chart to reflect the change trend of gas concentration in a period of time;
- Can display the maximum value or minimum value or average value through settings;
- Misoperation identification feature, concentration calibration misoperation automatic identification and prevention, can avoid adverse human factors;
- Zero automatic tracking, detector can be used for long term without affected by zero drift.

技术参数 Technical index

检测原理 Detection principle	电化学、催化燃烧、红外、热导、半导体、PID光离子等，根据量程、现场环境和用户需求而定 Electrochemistry, catalytic combustion, infrared, thermal conductivity, semiconductor, PID photo-ion, etc., according to the range, site environment and user requirementsuser requirements				
检测方式 Detection method	扩散式，标定流量500毫升/分钟 Diffusion type, calibration flow 500 ml/min				
检测范围 Detection range	0～1、10、100、1000、5000、50000ppm、100MG/L、100%LEL、20%、50%、 100%Vol可选，根据现场环境和用户需求而定 0-1, 10, 100, 1000, 5000, 50000ppm, 100MG/L, 100%LEL,20%, 50%, 100%Vol optional based on the site environment and user requirements				
通讯接口 Communication interface	标准USB充电与通讯(可定制RS485），具有充电保护功能，支持USB热插拔、可选配RS232 Standard USB charging and communication (customizable RS485), with charging protection function, support USB hot swap, RS232 optional				
传感器寿命 Sensor life	电化学2-3年，催化燃烧2-3年，红外5-10年，热导2-5年，半导体2-3年，PID 10000H Electrochemical 2-3 years, catalytic combustion 2-3 years, infrared 5-10 years, thermal conductivity 2-5 years, semiconductor 2-3 years,PID10000H				
工作环境 Working environment	温度-40°C～+70°C，相对湿度：10-95%RH Temperature: -40°C ~ +70°C, Relative humidity: 10-95%RH				
不确定度 Uncertainty	≤±2%	线 性 度 Linearityuracy	≤±2%	响应时间 Response time	T_{90}≤20s

产品外形 Shape of the product

产品界面 Product interface

菜单界面
Menu interface

单通道界面
Single-Channel interface

CI-EM604-1 便携式四合一气体检测仪

CI-EM604-1 Portable four-in-one gas detector

CI-EM604-1系列便携式复合型气体检测仪用于：快速检测多种气体浓度、温湿度测量并超标报警的场合，适用于检测管道中或受限空间、大气环境中的气体浓度。

CI-EM604-1 series portable compound gas detector is used for the occasions of rapid detection of various gas concentrations, temperature and humidity measurements and alarm when exceeding the standard,-suitable for detecting gas concentrations in pipelines or confined spaces and atmospheric environments.

泵吸检测 Pump suction test | 高清彩屏 HD color screen | 数据储存 Data storage | 安全防爆 Safety explosion-proof

产品特点

- 内置泵吸式测量，采样距离大于10米，支持实时检测或定时检测；
- 三种显示模式可切换，同时显示四种气体浓度，循环显示单通道气体的浓度，实时曲线显示；
- 图形化显示：以曲线形式反映一段时间内气体浓度变化走势；
- 多种报警方式报警模式设置，报警时多方位立体指示报警状态。

Product features

- Built-in pump suction measurement, sampling distance is greater than 10 meters， support real-time detection or timing detection;
- Three display modes can be switched to display four gas concentrations at the same time, cyclic display of single-channel gas concentration, real-time curve display;
- The graphical display reflects the trend of gas concentration change in a period of time in the form of a curve;
- Multiple alarm mode settings, multi-azimuth stereo indication alarm state.

产品外形 Shape of the product

正面 Heads　侧面 Side　背面 Back

产品界面 Product interface

单通道界面 Single-Channel Interface

四合一界面 Four-in-one Interface

CI-EM605 便携泵吸式五合一气体检测仪

CI-EM605 Portable pump-suction five-in-one gas detector

CI-EM605系列便携式复合型气体检测仪用于：精确检测分析多种气体浓度及温湿度、颗粒物、压差、风速等，采用2.5寸高清彩屏实时显示，采用进口著名品牌的气体传感器，适用于检测管道中或受限空间、大气环境中的气体浓度。

CI-EM605 series portable compound gas detector used for: accurate detection and analysis of a variety of gas concentration, temperature and humidity, particulate matter, pressure difference, wind speed, etc..CI-EM605 adopts 2.5 inch HD color screen for real-time display,it is suitable for detecting gas concentration in pipeline or confined space.

数据储存 Data storage | 安全防爆 Safety explosion-proof | 高清彩屏 HD color screen | SOS呼救 SOS | 定位追踪 Location tracking

技术参数 Technical index

检测气体 Detection gas	各种气体（一氧化碳CO、硫化氢H_2S、氧气O_2、可燃气体Ex、二氧化碳CO_2等），PS:可检测任意1-5种气体浓度和温湿度，具体检测种类取决于仪器内部传感器配置 Various gases (carbon monoxide CO, hydrogen sulfide H_2S, oxygen O_2, combustible gas Ex, CO_2,etc.)PS: Can detect any 1-5 kinds of gas concentration and temperature and humidity, the specific detection type depends on the internal sensor configuration of the instrument				
数据储存* Data storage	标准容量10万条（可选配SD卡扩容）；支持本机查看、删除或数据导出，存储时间间隔任意设置 The standard capacity is 100,000 pieces (larger capacity can be customized); Support this machine to view, delete or export data, and set the storage interval at will				
检测方式* Detection mode	内置泵吸式，采样距高大于10米，流量500ML/min，单独开关按键操作开关气泵 Built-in pump suction type, sample distance greater than 10 meters, flow 500ML/min, separate switch button operation switch air pump				
防爆类型* Explosion-proof type	本质安全型Exia II CT4Ga Intrinsically safe Exia II C T4Ga				
标准附件* Standard accessories	说明书、合格证、USB充电器（含数据线）、背夹、湿度粉尘过滤器1个、高档铝合金仪器箱 Manual, certificate, USB charger (including data cable), back clip, 1 humidity dust filter, high grade aluminum alloy instrument box				
不确定度 Uncertainty	≤±1%	线 性 度 Linearityuracy	≤±1%	响应时间* Response time	T_{90}≤20s

注：产品EM604-1与EM605相同参数在表中用*标出
Note: Product EM604-1 and EM605 the same parameters in the table marked with *

CI-EM606 便携式六合一气体检测仪

CI-EM606 Portable six-in-one gas detector

CI-EM606系列便携式复合型气体检测仪用于:精确检测分析多种气体浓度及温湿度、颗粒物、压差、风速等。主要检测原理有:电化学、红外、催化燃烧、热导、PID光离子等。采用瑞士高精度电容式数字温湿度传感器。先进的电路设计、成熟的内核算法处理,独特的外形设计,取得了多项软件著作和外观等专利。

CI-EM606 series portable compound gas detector used for: accurate detection and analysis of a variety of gas concentration, temperature and humidity, particulate matter, pressure difference, wind speed, etc..The main detection principles are: electrochemistry, infrared, catalytic combustion, thermal conductivity, PID photoion, etc.. Swiss high precision capacitive digital temperature and humidity sensor is used. Advanced circuit design, mature kernel algorithm processing, unique shape design, has obtained a number of software works and appearance patents.

数据储存 Data storage | 安全防爆 Safety explosion-proof | 高清彩屏 HD color screen | SOS呼救 SOS | 定位追踪 Location tracking

产品特点

- 单位自由切换，单位可选：ppm、mg/m³、ug/m³、VOL%、LEL%、pphm、ppb、mg/L；
- 内置泵吸式测量，采样距离大于10米，支持实时检测或定时检测（不检测时关闭气泵）；
- 三种显示模式可切换，同时显示六种气体浓度，循环显示单通道气体的浓度，实时曲线显示；
- 数据恢复功能：可以选择部分或全部恢复，免去误操作引起的后顾之忧；
- 本安电路设计：抗静电，抗电磁干扰，通过国标测试和CMC计量器具生产许可认证；
- 防护等级达IP68，防雨淋和短时间浸泡、防尘、防爆、防震。

Product features

- Free unit switch, unit optional: ppm, mg/m³, ug/m³, VOL%, LEL% pphm, ppb, mg/L;
- Built-in pump suction measurement, sampling distance is greater than 10 meters，support real-time detection or timing detection (when not detected, shut down the air pump);
- Three display modes can be switched to display five gas concentrations at the same time, cyclic display of single-channel gas concentration, real-time curve display;
- Data recovery function: partial or full recovery can be selected to avoid worries caused by misoperation;
- Intrinsic safety circuit design: anti-static, anti-electromagnetic interference, through the national standard test and CMC measuring instruments production license certification;
- The protection level reaches IP68, which is rain-proof, short-time soaking, dust-proof, explosion-proof and shockproof.

技术参数 Technical index

检测气体 Detection gas	各种气体（一氧化碳CO、硫化氢H_2S、氧气O_2、可燃气体Ex、二氧化碳CO_2、氮氧化物NOx等），PS:可检测任意1-6种气体浓度和温湿度，具体检测种类取决于仪器内部传感器配置，6种以上可定制 Various gases (carbon monoxide CO, hydrogen sulfide H_2S, oxygen O_2, combustible gas Ex, carbon dioxide CO_2, nitrogen oxide NOx, etc.), PS: can detect any 1-6 kinds of gas concentration and temperature and humidity, the specific detection type depends on the sensor configuration inside the instrument, and more than 6 kinds can be customized				
检测范围 Detection range	0～1、10、100、1000、5000、50000ppm、100MG/L、100%LEL、20%、50%、100%Vol可选，根据现场环境和用户需求而定 0-1, 10, 100, 1000, 5000, 50000ppm, 100MG/L, 100%LEL,20%, 50%, 100%Vol optional.Based on the site environment and user requirements				
检测原理 Detection principle	电化学、低红外等，根据气体类型、量程、现场环境和用户需求而定 Electro-chemical, infrared, etc., according to the gas type, range, field environment and user requirements				
电池容量 Battery capacity	6000mAH可充电的高分子聚合物电池 ,带过充、过放、过压、短路、过热保护功能 6000mAH rechargeable high molecular polymer battery with over charge, over discharge, over voltage, short circuit, overheating protection				
使用环境 Working environment	温度-40°C~+70°C，相对湿度：10-95%RH Temperature: -40°C ~ +70°C, Relative humidity: 10-95%RH				
不确定度 Uncertainty	≤±1%	线 性 度 Linearityuracy	≤±1%	响应时间 Response time	T_{90}≤20s

产品外形 Shape of the product

产品包装 Product packaging

CI-EM506 手提式复合型气体分析仪

CI-EM506 Portable composite gas analyzer

CI-EM506系列复合型气体分析仪用于:精确检测分析多种气体浓度及温湿度、颗粒物、压差、风速等。适用于检测管道中或受限空间、大气环境中的气体浓度;气体泄漏和各种背景气体为氮气或氧气的高浓度单一气体纯度广泛应用于石油、化工、冶金、炼化、燃气、医药、环保、烟气分析、空气治理等所有需要检测气体浓度的场合。

CI-EM506 series composite gas analyzer is used to accurately detect and analyze various gas concentrations, temperature, humidity, particulate matter, pressure difference, and wind speed.CI-EM506 is suitable for detecting gas concentration in pipelines or confined spaces in large gas environments. Gas leaks and various background gases are nitrogen or oxygen with a high concentration of single gas purity.

数据储存 Data storage | 安全防爆 Safety explosion-proof | 高清彩屏 HD color screen | SOS呼救 SOS | 定位追踪 Location tracking

产品特点

- 丰富的人机界面：3.5寸高清彩屏显示，菜单界面采用高清仿真图形显示各个菜单的功能名称；
- 内置泵吸式测量，采样距离大于10米，支持实时检测或定时检测（不检测时关闭气泵）；
- 可设置是否显示最大值、最小值、平均值；
- 零点自动跟踪 长期使用不受零点漂移影响；
- 目标点多级校准：保证测量的线性度和精度，能同时符合国家标准和地方计量局标准；
- 本安电路设计：防爆、防震、抗静电，抗电磁干扰，通过国标测试；
- 防护等级达IP66 防水溅、防尘、防爆、防震。

Product features

- Rich man-machine interface: 3.5 "HD color screen display, the menu interface uses HD simulation graphics to display the function name of each menu;
- Built-in pump suction measurement, sampling distance is greater than 10 meters, support real-time detection or timing detection (when not detected, shut down the gas pump);
- Can set whether to display the maximum value, minimum value, average value;
- Zero automatic tracking long-term use is not affected by zero drift;
- Multi-stage calibration of target points ensures linearity and accuracy of measurement, which can meet both national standards and local bureau standards;
- Safety circuit design explosion-proof, shock-proof, anti-static, anti-electromagnetic interference, passed the national standard test;
- Protection level up to IP66 waterproof splash, dust-proof, explosion-proof, shock-proof.

技术参数 Technical index

检测气体 Detection gas	各种气体（一氧化碳CO、硫化氢H_2S、氧气O_2、可燃气体Ex、二氧化碳CO_2、氮氧化物NOx等），选配：最多可扩展同时检测任意30种检测因子，包括温湿度、颗粒物、压差、风速等 Various gases (carbon monoxide CO, hydrogen sulfide H_2S, oxygen O_2, combustible gas Ex, carbon dioxide CO_2, nitrogen oxide NOx, etc.), Optional: at most can be expanded at the same time any 30 detection factors, including temperature and humidity, particulate matter, pressure difference, wind speed, etc.				
检测范围 Detection range	0～1、10、100、1000、5000、50000ppm、100MG/L、100%LEL、20%、50%、100%Vol可选，根据现场环境和用户需求而定 0-1, 10, 100, 1000, 5000, 50000ppm, 100MG/L, 100%LEL,20%, 50%, 100%Vol optional Based on the site environment and user requirements				
检测原理 Detection principle	电化学、低红外等，根据气体类型、量程、现场环境和用户需求而定 Electro-chemical, infrared, etc., according to the gas type, range, field environment and user requirements				
电池容量 Battery capacity	10800mAH可充电的高分子聚合物电池 ,带过充、过放、过压、短路、过热保护功能 10800mAH rechargeable high molecular polymer battery with over charge, over discharge, over voltage, short circuit, overheat protection				
使用环境 Working environment	温度-40°C~+70°C，相对湿度：10-95%RH Temperature-40 °C ~+70 °C , Relative humidity: 10-95%RH				
不确定度 Uncertainty	≤±1%	线 性 度 Linearityuracy	≤±1%	响应时间 Response time	T_{90}≤20s

产品外形 Shape of the product

产品包装 Product packaging

CI-EM01 在线式单一气体检测报警仪

CI-EM01 On-line gas detection alarm

CI-EM01可以检测管道中或受限空间、大气环境中的气体浓度；气体泄漏和各种背景气体为氮气或氧气的高浓度单一气体纯度。检测种类超过500余种。坚固耐用的防爆外壳适用于各种危险场所及恶劣的工业环境。

CI-EM01 can detect gas concentration in pipelines, confined spaces, and atmospheric environment; For instance, leakage of a gas pipeline, purity measurement of high concentration gas with nitrogen or oxygen as background gases. There are more than 500 kinds of testing. The durable explosion-proof casing is suitable for various dangerous applications and harsh industrial environment.

响应迅速 Quick response | 高清彩屏 HD color screen | 红外遥控 Infrared remote control | 数据储存 Data storage

产品特点

- 防反接设计，任意形式的反接都不会损坏仪器；
- 两个电缆进线口，方便现场安装；
- 独立气室结构，响应迅速, 优异的长期稳定性；
- 丰富的人机界面1.7寸高清彩屏，显示实时浓度、报警状态；
- 多种通讯方式可供选择；
- 零点自动跟踪，长期使用不受零点漂移影响；
- 红外遥控:标配红外遥控器，可实现在危险场合免开盖操作，有修改报警点、浓度校准、零点校准、消音、恢复出厂等功能。

Product features

- Anti-reverse-connection design, any form of reverse connection will not damage the instrument;
- Two cable inlets available, convenient for on-site installation;
- Independent air chamber structure, rapid response and excellent long-term stability;
- Rich man-machine interface: 1.7-inch high-definition screen, showing real-time concentration and alarm status;
- A variety of communication methods are available;
- Automatic zero tracking, long-term use is not affected by zero drift;
- Infrared remote control: able to achieve cover-free operation in dangerous situations. Has functions of modifying alarm points, concentration calibration, zero calibration, noise reduction, factory recovery and so on.

产品外形 Shape of the product

CI-EM02 在线式复合气体检测报警仪

CI-EM02 On-line gas detection alarm

CI-EM02系列在线式单一气体检测报警仪应用于：现场多种气体浓度24小时连续在线监测及温湿度的测量，现场浓度显示，远程信号传输，超标现场声光报警。采用2.5寸高清彩屏实时显示，采用国际知名品牌的气体传感器。

CI-EM02 On-line Compound gas alarm can be applied to a 24-hour continuous on-line monitoring of on-site gas concentration, temperature, humidity, remote signal transmission, and on-site acousto-optic alarm. The alarm is equipped with real-time display of 2.5-inch high-definition color screen and international reowned gas sensors.

实时监控 Real-time monitoring | 安全防爆 Safety explosion-proof | 无线传输 Wireless transmission | 红外遥控 Infrared remote control

技术参数 Technical index

检测气体 Detection gas	各种气体（氧气、二氧化碳、有毒气体、易燃易爆类气体等）500种以上气体； PS:可检测任意1-6种气体浓度和温湿度，具体检测种类取决于仪器内部传感器配置 All kinds of gases (oxygen, carbon dioxide, toxic gases, flammable and explosive gases, etc.) more than 500 kinds of gases; PS: Can detect any 1-6 kinds of gas concentration and temperature and humidity, the specific type of detection depends on the instrument's internal sensor configuration				
检测原理* Detection principle	电化学、催化燃烧、红外、热导、半导体、PID光离子等，根据量程、现场环境和用户需求而定 Electrochemistry, catalytic combustion, infrared, thermal conductivity, semiconductor, PID photoion, etc., according to the range, site environment and user requirements				
检测方式* Detection mode	在线检测，扩散式测量；可选管道式、流通式、外置泵吸式、内置泵吸式测量 Online detection, spread measurement; Optional pipe type, flow type, external pump suction type, built-in pump suction type measurement				
报警方式* Alarm mode	默认1路，可选2路无源触点（干节点）输出，报警点可设置，带现场声 光报警灯 1 by default, optional 2 passive contacts (dry nodes) output, alarm point can be set, with on-site sound and light alarm light				
工作环境* Working environment	温度：-40°C～+70°C,相对湿度：10-95%RH （常规）非凝露场合； Temperature: -40°C ~ +70°C, relative humidity: 10-95%RH (conventional) non-condensation occasions				
不确定度* Uncertainty	≤±2%	线 性 度* Linearityuracy	≤±2%	响应时间* Response time	T_{90}≤20s

注:产品EM01与EM02相同参数在表中用*标出
Note: Product EM01 and EM02 the same parameters in the table marked with *

CI-EM05 在线式单一气体检测报警仪

CI-EM05 Online single gas detection alarm

CI-EM05可以检测管道中或受限空间、大气环境中的气体浓度；气体泄漏和各种背景气体为氮气或氧气的高浓度单一气体纯度。检测种类超过500余种。坚固耐用的防爆外壳适用于各种危险场所及恶劣的工业环境，广泛应用于石油、化工、冶金、炼化、燃气输配、生化医药等行业。

CI-EM05 can detect gas concentration in pipeline or confined space and atmospheric environment. Gas leaks and various background gases are nitrogen or oxygen with a high concentration of single gas purity. More than 500 kinds were detected. Durable explosion-proof shell is suitable for all kinds of dangerous places and harsh industrial environment, widely used in petroleum, chemical industry, metallurgy, refining, gas distribution, biochemical medicine and other industries.

安全防爆
Safety explosion-proof

长期稳定
Long-term stability

响应迅速
Quick response

24小时在线监测
24-hour on-line monitoring

产品特点

- 两个电缆进线口，方便现场安装；
- 独立气室结构，响应迅速， 优异的长期稳定性；
- 零点自动跟踪 长期使用不受零点漂移影响；
- 目标点多级校准：保证测量的线性度和精度，能同时符合国家标准和地方计量局标准；
- 数据恢复功能：可以选择部分或全部恢复，免去误操作引起的后顾之忧；
- 隔爆电路设计：防爆、防震、抗静电，抗电磁干扰，二级防雷，抗高强度脉冲浪涌电流冲击、符合EMI、EMC标准，通过国标测试；
- 防护等级达IP65 防水溅、防尘。

Product features

- Two cable inlet ports for on-site installation;
- Independent chamber structure, rapid response, excellent long-term stability;
- Zero automatic tracking for a long time is not affected by zero drift;
- Multi-stage calibration of target points ensures linearity and accuracy of measurement, which can meet both national standards and local bureau standards;
- The data recovery function can select partial or full recovery, eliminating the worry caused by misoperation;
- Flameproof circuit design explosion-proof, shock-proof, anti-static, anti-electromagnetic interference, secondary lightning protection, anti-high strength impulse surge current impact, in line with EMI, EMC standards, passed the national standard test;
- Protection class up to IP65 waterproof splash and dustproof.

技术参数 Technical index

检测气体 Detection gas	有毒气体、氧气、二氧化碳、易燃易爆类气体、TVOC等500种以上气体 Poisonous gas, oxygen, carbon dioxide, flammable and explosive gas, TVOC and more than 500 kinds of gases.(See "Common Gas Schedule" for details)				
检测范围 Detection range	0～1、10、100、1000、5000、50000ppm、100MG/L、100%LEL、20%、50%、100%Vol可选，根据现场环境和用户需求而定 0-1, 10, 100, 1000, 5000, 50000ppm, 100MG/L, 100%LEL,20%, 50%, 100%Vol optional.Based on the site environment and user requirements				
检测原理 Detection principle	电化学、催化燃烧、红外、热导、半导体、PID光离子等，根据量程、现场环境和用户需求而定 Electrochemistry, catalytic combustion, infrared, thermal conductivity, semiconductor, PID photoion, etc., according to the range, site environment and user requirementsuser requirements				
工作环境 Working environment	温度：-40°C～+70°C，相对湿度：10-95%RH（常规）非凝露场合； 压力：管道安装时：0.1Mpa±20%（即正常大气压±20%），或：80kPa～120kPa emperature: -40°C ~ +70°C, relative humidity: 10-95%RH (conventional) non-condensation occasions; Pressure: pipeline installation: 0.1Mpa±20% (normal atmospheric pressure soil 20%), or: 80kPa~120kPa				
工作电压 Operating voltage	DC 12～30V，单台设备标准电源为DC 24V，可选配1A或大于1A 的直流稳压开关电源为其供电 DC 12-30V, the standard power supply of a single device is DC 24V, and 1A or greater DC regulated voltage opening power supply can be selected for its power supply				
不确定度 Uncertainty	≤±2%	线 性 度 Linearityuracy	≤±2%	响应时间 Response time	T_{90}≤20s

产品外形 Shape of the product

产品标配配件 Product standard accessories

CI-EM300 气体控制报警器

CI-EM300 Gas control alarm

CI-EM300多通道气体报警控制器是我公司研制的多点监控气体报警系统，由控制器和探测器构成，用于检测作业环境中可燃气体浓度的仪器，并同时对多点进行集中采集。该气体报警控制器可接入120路总线制RS485输出气体探测器和8路4-20mA输出气体探测器，更多输入通道可订制。本系统可广泛使用于工厂、油库、液化气站、煤气站、加油站、喷漆房等气体易泄漏的场所进行安全检测报警。

CI-EM300 multi-channel gas alarm controller is a multi-point monitoring gas alarm system developed by our company. It is composed of controller and detector, which is used to detect the concentration of combustible gas in working environment, at the same time, multi-point centralized acquisition. The gas alarm controller can be connected to 120 bus RS485 output gas detector and 8 Route 4 -20 Ma output gas detector, more input channels can be customized. The system can be widely used in factories, oil depots, liquefied gas stations, gas stations, gas stations, painting rooms and other gas leakage of places for safety detection and alarm.

超高性能
Ultra-high performance

安全防爆
Safety explosion-proof

超低功耗
Ultra low power consumption

无线通讯
Wireless communication

产品特点

- 采用高速、高集成的微处理系统，标准ARM架构内核，高性能，低功耗；
- 强大的数据统计分析，报警，故障智能排序，总数累计；
- 支持数据记录打印，可内置或外置打印机；
- 通道屏蔽，报警延时等特色功能，应用方便；
- 继电器输出配置灵活多变，轻松实现一对多，多对一；
- 接口兼容性强，支持RS485、RS232，RJ45（网口）等；
- 支持其它如压力、液位、温湿度、风速，风向等变送器接入。

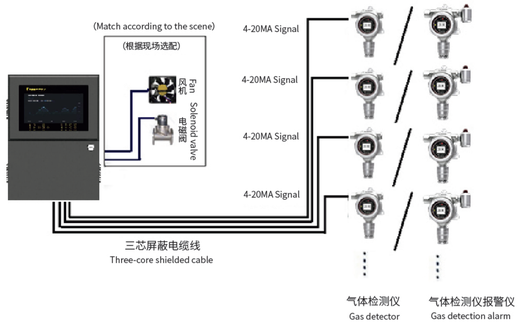
Product features

- Adopt high-speed, highly integrated microprocessing system, standard ARM architecture kernel, high performance, low power consumption;
- Powerful statistical data analysis, alarm, intelligent fault sequencing, total accumulation;
- Support data recording printing, either built-in or external printer;
- Channel shield, alarm delay and other features, easy to use;
- The relay output configuration is flexible and changeable, easily realizing one-to-many, many-to-one;
- Supports RS485, RS232, and RJ45 (network ports) with strong compatibility;
- Support Bluetooth, LoRa, GPRS, WIFk 433M and other wireless communication interfaces.

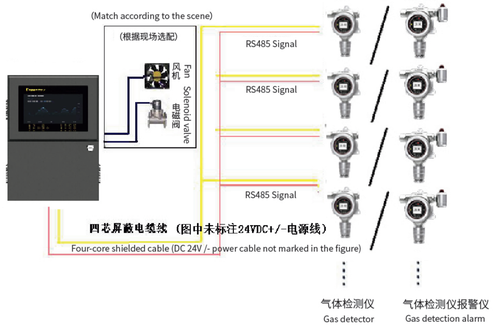
技术参数 Technical index

信号输入 Signal input	1～32路 4～20mA，同时RS485输入，可接255个探头 1~32 channels 4~20mA, at the same time RS485 input, can be connected to 255 probes
显示方式 Display mode	高清超大9寸液晶触摸屏，分辨率高，视觉效果佳工业级UI设计，多种显示模式，图文结合，大字体显示，交互性友好 High-definition large 9 inch LCD touch screen, high resolution, good visual effect
操作系统 Operating system	采用实时操作系统，模块化设计，软件架构标准，集成化程度高，运行速度快，稳定性好 Adopt real-time operating system, modular design, software architecture standard, high degree of integration, fast running speed, good stability
功能特点 Functional characteristics	丰富的功能快捷键、数字键盘、无线手操器及触摸按键，操作方便简单支持多级权限用户管理，菜单密码保护 Rich function shortcut keys, numeric keyboard, wireless manual operator and touch keys, easy to operate, support multi-level user management, menu password protection
输出控制 Output control	标准为8组继电器触点输出 (常开/常闭), 触点容量3A/AC 250V、3A/DC 30V 一组公共报警输出，触点容量10A/AC 277V、12A/AC 125V The standard is 8 groups of relay contact output (normally open/normally closed), contact capacity 3A/AC 250V, 3A/DC 30V a group of public alarm output, contact capacity 10A/AC 277V, 12A/AC 125V
自动检测 Automatic detection	线路断/短路检测、探测器各种状态，功能检测等 Line break/short circuit detection, detector state, function detection, etc.
报警方式 Alarm moderacy	声光报警，每一回路可单独设定高、低限报警值,每个回路可绑定三路继电器联动输出 Sound and light alarm, each circuit can be independently set high and low limit alarm value, each circuit can be bound to three relay linkage output

应用图示 Apply the icon



4-20MA信号(Signal)



RS485信号(Signal)