

ES10C Fixed Online Gas Detector



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Email:

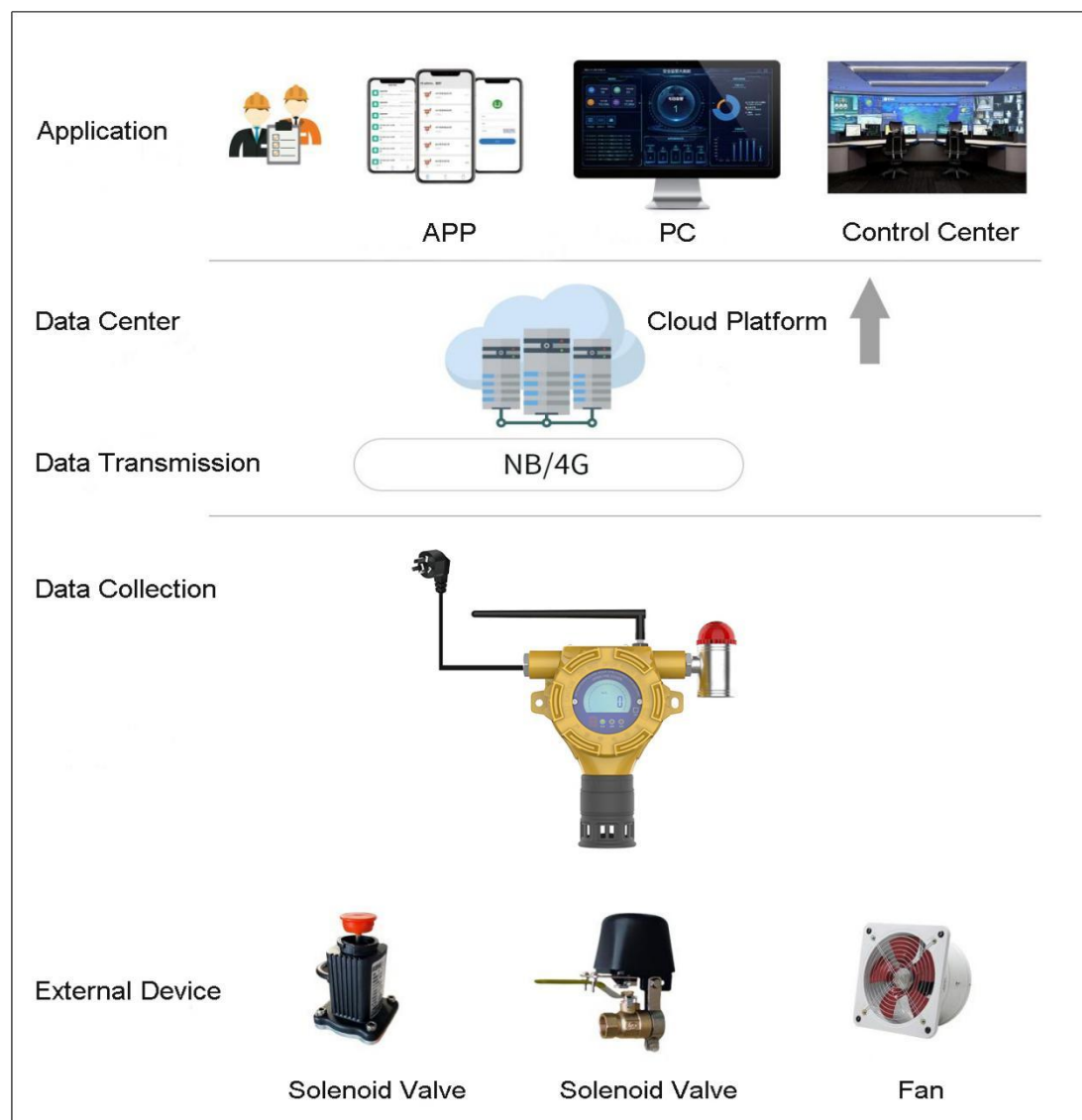
op01@szeyesky.com

Website:

www.safewillgasdetector.com

System Composition

The ES10C Online Gas Detector is a newly developed product by Safewill Technology. It supports multiple communication signals such as NB/GPRS, and introduces cloud platform connectivity on top of the original functions. This greatly enhances data mobility, facilitates centralized management and monitoring, optimizes traditional wired transmission installation, and speeds up alarm response time.

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Features

- Real-time monitoring of gas concentration on-site, with data transmitted wirelessly to the cloud platform. Users can view in real-time via computer or mobile device, convenient and efficient.
- Supports 4G, GPRS, Lora, ZigBee transmission modes.
- When gas concentration exceeds the limit, the detector triggers audible and visual alarms, and simultaneously activates on-site equipment such as fans or extinguishers. At the same time, the over-limit data is uploaded to the computer/mobile terminal to remind users to take immediate action, ensuring on-site safety.
- No communication cabling required, easy installation, cost-saving.
- Triple waterproof design (housing, gas chamber, internal circuits) suitable for different environments, ensuring reliability.
- Multi-point calibration for more accurate measurement.
- Temperature compensation to adapt to different working environments.
- Supports remote operation and maintenance. Each detector's operating status can be monitored centrally via computer, reducing maintenance costs.
- Automatic self-test at startup for all sensors and components to ensure measurement accuracy.
- Three indicator lights for Normal, Fault, and Alarm status, easy to recognize.
- Factory reset function; in case of incorrect operation, one-click reset is available.
- Independent gas chamber design for easy sensor replacement.
- Stainless steel chamber and painted housing for corrosion resistance and durability.
- Modular sensor design; replacement requires no matching of the original probe and no secondary on-site calibration, simplifying maintenance.
- Infrared remote-control operation mode allows safe use in explosive environments without opening the cover.

Installation Location

When determining installation location, consider the following factors: gas leakage points, gas density, surrounding buildings, wind direction, and climate. For indoor installation, door and window positions must also be considered.

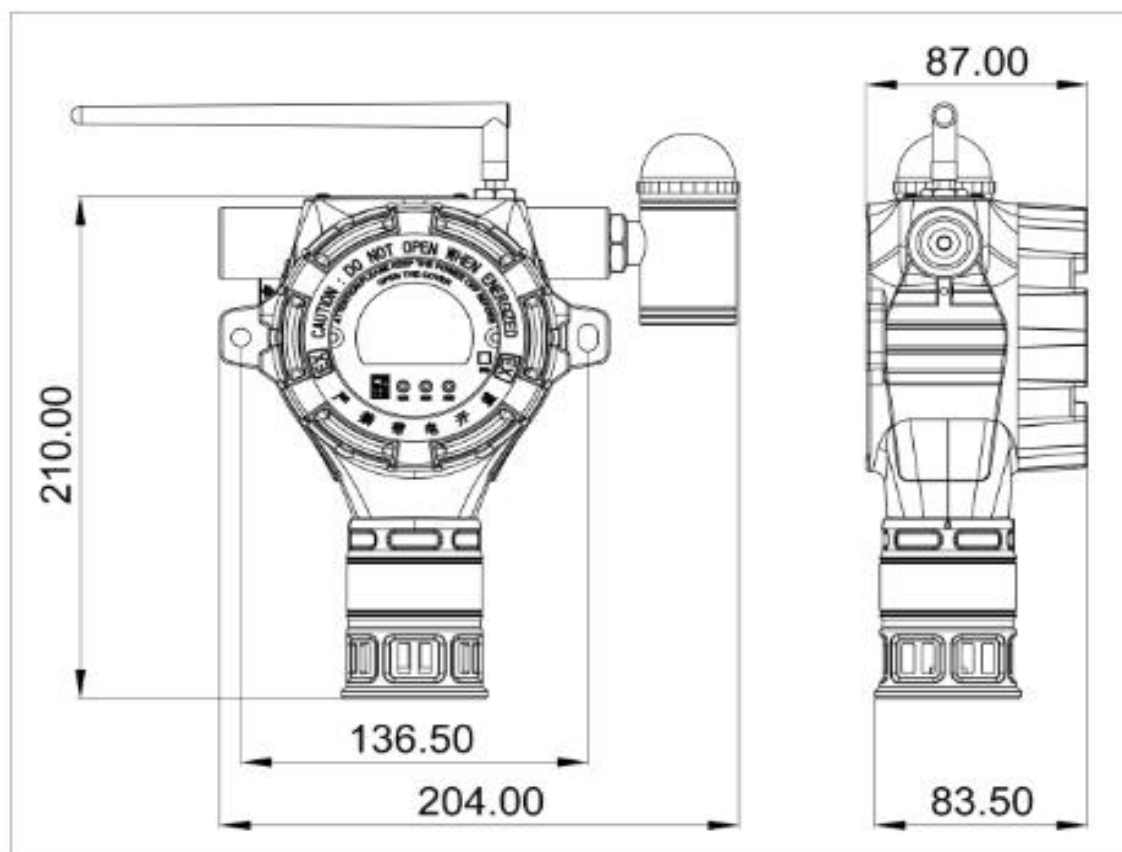
Guidelines for reference:

1. Installation height should be determined by the relative density of the gas to air:
 - Heavier than air: 0.3–0.6 m above ground.
 - Lighter than air: 0.5–2 m above the release source.
 - Similar to air: about 1.5 m (approximate breathing height).
2. Maintain proper distance from leakage source: too close may cause frequent alarms; too far may cause delayed response.
3. Install upwind of leakage source.
4. For indoor use with outdoor leakage source, install near air inlets.
5. Choose number of detectors based on leakage risks, personnel presence frequency, and duration.
6. Avoid installation near heat sources; extreme temperatures affect sensor performance and service life.

Reference standard: SH3063-1999 “Design Specification for Combustible and Toxic Gas Detection and Alarm Systems in Petrochemical Enterprises”.

Product Dimensions

(Unit: mm)



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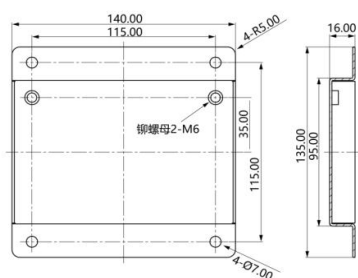
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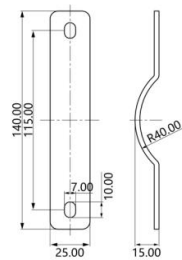
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Installation Method

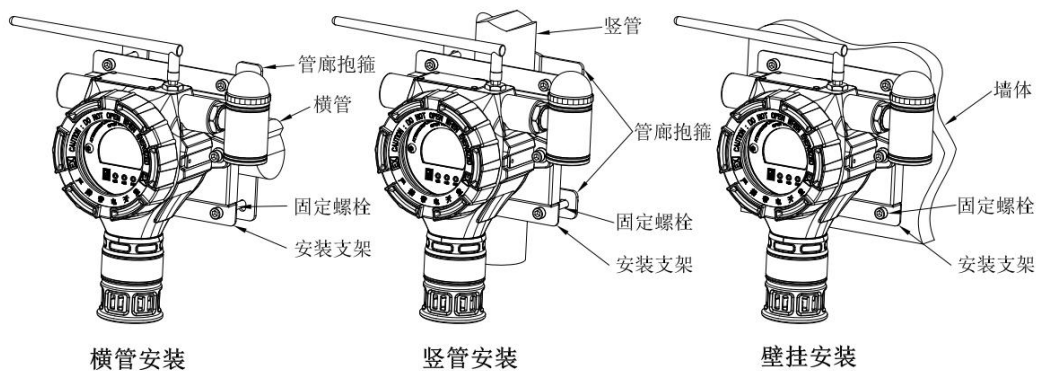
- Wall-mounted
- Pipeline-mounted



安装支架



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Technical Parameters

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Item	Parameter
Product Name	Online Fixed Gas Detector
Accuracy	$\leq \pm 3\%FS$ (standard accuracy)
Online Rate	99.87%
Display Mode	LCD dashboard interface
Visible Distance	≥ 10 m (vision 5.0)
System Language	English or Customized
Direct Reading	Measurement values, alarm values
Operation Method	Remote control + four-button operation
Operation Mode	User mode, Admin mode
Detection Method	Diffusion type
Calibration	Target-point calibration; calibration value settable; one-key zeroing
Sampling Method	Free diffusion – continuous online monitoring
Installation	1. Wall-mounted; 2. Pipeline-mounted

Item	Parameter
Housing Material	ADC12 aluminum alloy, solid, wear-resistant, corrosion-resistant
Explosion-proof Mark	Ex d II CT6 Gb
Protection Grade	IP66
Operating Temperature	-20℃ ~ 50℃
Operating Humidity	10%–95% RH, non-condensing (optional filter for >90%RH with condensation)
Operating Pressure	86–120 KPa (higher pressure consult customer service)
Power Consumption	≤1W (electrochemical sensor)
Signal Transmission	4G/GPRS wireless
Transmission Distance	Unlimited (as long as stable 4G/2G network available)
Carrier	Full network support; compatible with China Mobile, Telecom, Unicom SIM cards
SIM Card Type	Standard (large) SIM
Alarm Method	Mobile APP push notification; PC terminal with color/visual warning; On-screen display prompts
Alarm Point Settings	K1, K2 configurable

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Item	Parameter
Service Life	2 years (sensor), 5 years (instrument)
Power Supply	12–30VDC (typical 24VDC); optional 220VAC
Dimensions	185 mm (H) × 137.2 mm (W) × 90.7 mm (D)
Weight	≥1.65 kg
Certifications	Fire safety certification (combustible gases only); Explosion-proof certification; Third-party metrology certification
Standards	ISO9001; GB15322.1-2019; GB3836.1-2010; GB3836.2-2010
Standard Accessories	Packaging box, User manual, Certificate of conformity, Warranty card, Factory test report, Remote control (standard), Antenna (standard), Calibration cover (optional)

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