

EXPEC 3050

Handheld VOCs Gas Analyzer

Product Introduction

EXPEC 3050 Handheld Volatile Organic Gas Analyzer is a very lightweight handheld VOCs analyzer based on the FID principle, weighs only about 2Kg and can be operated with one hand.

VOCs analyzer based on FID detector principle is an industry-recognized class of instruments for the detection of VOCs, related standards are: GB37822-2019 "Non-organized emission control Standard for Volatile organic compounds", HJ38-2017 "Determination of total hydrocarbon, methane and non-methane total hydrocarbon in the exhaust gas of fixed pollution sources gas chromatography", HJ1012 2018 "environmental air and exhaust gas total hydrocarbon, methane and non-methane total hydrocarbon portable monitor technical requirements and detection methods", HJ 1013-2018 "Technical requirements and testing Method for continuous monitoring system of Total non-methylene hydrocarbon in the exhaust gas of Fixed Pollution Sources", etc.



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Product Features



Whole machine explosion-proof design

The circuit of the whole machine adopts intrinsic safety explosion-proof design, and the core FID detector module adopts flameproof design.



High accuracy

FID detector, consistent with online VOCs system, provides an accuracy unmatched by handheld PID.



Easy to carry

Light weight, the weight of the host is less than 2 kg (portable non-methane total hydrocarbon analyzer is generally 10-20kg). Small size, easy to carry.



Easy to operate

It only takes 2 steps to test, and users can view test data, calibrate and set parameters through the panel.



High reliability

The technical route and spectrum of large-scale production of EXPEC 3100 are in the same line, reliability is trustworthy.



Transportation Safety

The application of the hydrogen storage alloy enables the instrument to be transported or mailed safely.



Perfect after-sale

The perfect after-sales service system of EXPEC Technology provides customers with comprehensive after-sales engineering services.

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Product Parameters

Item	Index
Explosion-proof form	Ex db ia IIC T4 Gb
Battery	Using time is over 6 hours when fully charged
Weight	Only FID 2kg ; FID+PID 2.1kg
Hydrogen cylinder volume	Using time is over 6 hours when fully charged
FID Life span	Normal cleaning, > 5000 hours
Repeatability	FID: ≤2% ; PID: ≤2%
Dynamic (linear) range	FID: 0~50,000ppm; PID: 0~2,000ppm
Minimum detection limit	FID: 0.2ppm methane; PID: 0.2ppm isobutene
Response time of probe sampling	PID: use 500ppm isobutene, 90% of the final value is achieved in 3.5 seconds at most FID: use 10,000ppm methane, 90% of the final value is achieved in 3.5 seconds at most
Sampling speed	At the inlet of sampling probe, the rating is about 0.5 L/min

Field of Application

- Fixed pollution sources organized VOCs rapid screening supervision
- Workshop unorganized VOCs supervision rapid screening supervision
- Workshop outside 1m unorganized VOCs rapid screening supervision
- Factory unorganized VOCs rapid screening regulation
- Organized and unorganized VOCs enterprise self-check
- Third party detection and enterprise make the leakage detection in short time



Sweep to learn