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EXPEC 3100

Portable VOC Detection System

01/

EXPEC 3100 uses hydrogen flame ionization detection technology for total hydrocarbon measurement, which is suitable for VOCs traceability, on-site emergency detection of pollutants, automatic on-site emergency detection, and pipeline leak detection.

Principle

The detection system has an available selection of both FID and PID dual detectors, which are capable of detecting almost all VOCs and some common inorganic deposits. At the same time, it is equipped with a manual EXPEC 3100I operator that can be incorporated with an onsite VOC analysis, onsite LDAR archiving, point detection, data recording, and instrument control. Its advantages include: ease of portability, high detection performance, high traceability efficiency, and ease of operation, thus satisfying customer's requirements of rapid and accurate analysis.

02/

Product Features

Simple Field Solution

- Suitable for network applications,
- upload all data to the cloud platform;
- Wireless connection, more efficient;
- User-friendly interface;



EXPEC-3100I

Explosion-Proof Design

- Flameproof and intrinsically safe design;
- Reliable in harsh conditions;

Strong On-site Detection Ability

- Optional FID and PID dual detector;
- Accurate, real-time measurement;
- Measurement of hundreds of VOC gases in 3.5 seconds;

Attachment Hydrogen Module

- Safe and fast hydrogen charging/discharging working mode;

03/

Specification

Detector(s)	FID, *PID
Range	FID 1.0-50,000 ppm Mathane; *PID 0.5-2,000 ppm Isobutene;
Detection Limit	FID 0.5 ppm Mathane; *PID 0.5 ppm Isobutene;
Retention Time Repeatability	FID 500 ppm Mathane, < 2% ; *PID 100 ppm Isobutene, < 1%;
Response Time	FID can detect 90% concentration of 10,000ppm of Mathane in 3.5s; *PID can detect 90% concentration of 500ppm of Isobutylene in 3.5s;
Maximum Operating Time	Hydrogen: at 25°C, it takes 10s to fill up; 15.3MPa and can work continuously for more than 10 hours;
Sampling	sensor port flow rate1L/min
Working Temperature	-10-45°C
Explosion-Proof Type	Ex d ia IIC T4 Gb
Exterior Size	302*245*88 mm
Weight	3.7kg

*PID detection is an available method.