

DW-EXPEC3200-200

Portable Total Hydrocarbon, Methane and Non-Methane Total Hydrocarbon Analyzer

Introduction

DW-EXPEC3200-200 portable total hydrocarbon, methane and non-methane total hydrocarbon measuring instrument adopts high temperature catalytic oxidation + FID detection technology. It can effectively avoid the loss of samples with high boiling point and high concentration, and realize the accurate measurement of total hydrocarbons, methane and non-methane total hydrocarbons in waste gas from fixed pollution sources and fugitive emissions. The detection limit can reach ppb level, and the product is completely in line with non-methane total hydrocarbon The on-site monitoring method standard meets the index requirements in the "Technical Requirements and Detection Methods for Portable Monitors for Total Hydrocarbons, Methane and Non-methane Total Hydrocarbons in Ambient Air and Exhaust Gas" (HJ 1012-2018).



Features

1. Highly integrated, extremely portable

The weight of the host (including gas cylinder and battery) is less than 6.5 kg, which is only the weight of similar products 33%~70% of the volume.

Integrated industrial design, can be carried on one or two shoulders, and a single person can complete the detection task.

2. Excellent battery life, worry-free gas and electricity

Gas supply: Built-in zero-level air generator module, no need for external carrier gas and auxiliary gas; Supports hydrogen storage alloy or steel cylinders, and can be safely inflated with a hydrogen generator.

Power supply: Support AC220 V or hot engine to replace the battery, the battery life is greater than 20h.

3. High temperature heat tracing, reduce loss

The whole process of high temperature heating sample transmission and high temperature FID detection can effectively avoid high boiling point, high concentration sample loss.

4. Second-level analysis, one-click completion

Second-level analysis, real-time sampling, fast and accurate feedback of working conditions.

One-click wizard operation.

Applications

1. Environmental inspection and enforcement of organized and unorganized emissions of non-methane total hydrocarbons.
2. Organized and unorganized emissions of non-methane total hydrocarbon pollutants self-examination.
3. Comparison and acceptance of non-methane total hydrocarbon online monitoring system.
4. VOCs lake source investigation.
5. Efficacy Evaluation of VOCs Treatment Facilities.
6. Other application scenarios involving non-methane total hydrocarbon monitoring.

Specifications

Detect factor	Total hydrocarbons, methane and non-methane total hydrocarbons
Analysis period	1~120 s can be set
Measurement range	(0-20/200/customizable) mg/m3
Detection limit	≤0.07 mg/m3 (by carbon)
Sample blank	< detection limit
Quantitative repeatability	<1%
Hydrogen	Standard solid hydrogen storage alloy, optional cylinder gas, battery life > 20hrs
Principle	High temperature catalytic oxidation +FID detection technology
Ambient temperature	-20 ~ 50 °C
Weight	The whole machine (including battery and cylinder) is less than 6.5 kg
Power supply	AC220 V/DC24 V
Battery	Battery can be changeable, using >20hrs
Linearity error	< 2%±FS
FID gas-supporting	High temperature catalytic oxidation + physical adsorption to remove hydrocarbons