

ZR-3130 THC Analyzer



THC

O₂ (Optional)

Introduction

The THC Analyzer is a portable analyzer equipped with hydrogen flame ionization detector (FID) that can detect almost all organic and inorganic compounds. Identify various pipeline and valve components, discharge ports and sealing systems quickly, helping users leakage detection and repair points.

Reference standards

- EPA method 21
- SOR/2020-231
- EN 15446

Features

- Range: 1-50,000ppm
- Response time: <3.5s
- ATEX Certificate: Ex II 2 G Ex db ib IIC T4 Gb
- Can work under low oxygen concentration
- Removable battery working time: 10 hours
- Removable H₂ cylinder working time: 6 hours
- Backpack & carry case
- Weight: <3kg

Packing List



Gas-filled



Optional



Filling component



Solid-state hydrogen cylinder

Specifications

Parameters	Range	Accuracy
Linear	FID 1.0-50000ppm of methane	±10% of the reading or ±0.1ppm, whichever is of methane, from 1.0 to 10,000 ppm
	PID 0.5-2000 ppm	0.5-2000 ppm, +20% of reading or ±0.5 ppm
	O ₂ 0-30%	±5%
Repeatability	FID: 2% at 500ppm methane PID: 1% at 100 ppm isobutylene (Optional)	
Minimum detection limit	The minimum detection limit is calculated as the standard deviation of sevenfold peak-to-peak noise FID: 0.5ppm methane; PID: 0.5 ppm isobutylene (Optional)	
Response time	FID: sampling 10000ppm methane, and the time to reach 90% of the final value is less than 3.5s.	
Sampling flow rate	1.1L/min-1.5L/ min at the sampling probe entrance	
Data storage	Automatic mode 1 time/second or 1 time / 999 minutes, user optional	
Battery	At 0°C, it can work continuously for at least 10 hours; Full battery time is less than 4 hours. The battery can be replaced by opening the battery cover on the back of the instrument.	
Host size	(L210×W90×H280) mm	
Weight	Analyzer: FID+Oxygen sensor: about 3.6kg. Standard probe: 0.2kg.	
Communication mode	Optional WIFI or Bluetooth communication	
Gas cylinder working hours	The high-pressure cylinder pressure starts from 15.3MPa (2200Psi) and works continuously for more than 10 hours.Solid cylinder pressure starts at 1MPa for more than 16 hours of continuous operation.	

Note:

1. The analyzer is equipped with FID as standard, and the user can choose O₂ and other sensors according to needs.
2. Users can choose personalized accessories such as 3-meter extension rod according to their own field conditions to reduce the unreachable points of field detection and meet the requirements of the number of unreachable points in HJ1230.

Applications

