

# FID6000 Portable H-FID THC Analyzer

FID6000 is a Portable On-site FID Analyzer to measure THC (Total Hydrocarbons) from Stack Emissions.

The miniaturization of the **flame ionization detector (FID)** and volumetric sampling system results in a outstanding energy savings and thus allows the use of built-in rechargeable batteries. It also ensures the highest accuracy and repeatability of sequences of analysis. It is widely used in organic chemical factories, surface coating industry, printing and dyeing industry, furniture manufacturing industry, automobile manufacturing industry, pharmaceutical industry and other industries.

EPA25  
EN13526  
EN12619

Std



## High Test Efficiency



- The preheating time of the system is less than 15 min.
- New catalyst ensure high conversion efficiency (≥95%).
- Full process heat tracing to avoid condensation loss of high temperature and high humidity gas samples, temperature up to 180 °C, with no freezing point.
- The pipeline is silanized to reduce sample adsorption.



## Lightweight & Economic use



- Weight < 7kg, built a suitcase, light to carry.
- High stability of analysis values and low maintenance costs.
- Rechargeable battery, for at least 4 hours.
- The concentration can be automatically calibrated, and the range can be automatically switched.
- Manual operators can be equipped for wireless transmission. (Optional)



## Powerful Data Processing Functions



- Data storage capacity > 10,000 group.
- Data file automatic recording and storage, historical data query, reprocessing and printing functions.
- Test data can be exported in Excel file and printed by Bluetooth printer.





## Expandability



Can expand to test THC, NMHC (Non-Methane Hydrocarbons), CH<sub>4</sub> (Methane) and O<sub>2</sub> and moisture content in stationary source emission and fence line. (FID 6000+)

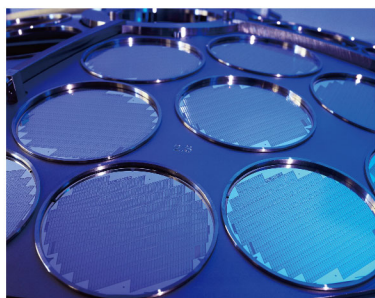


## Low cost of consumables



Equipped with replaceable H<sub>2</sub> metal cylinder which has a large capacity, long service life, and safety.

## Application



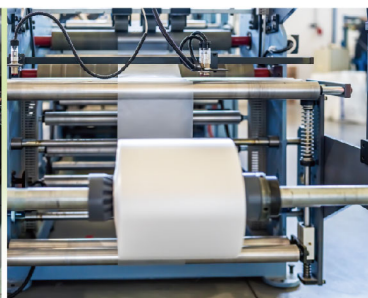
Semiconductor Industry



Oil refining and petrochemical Industry



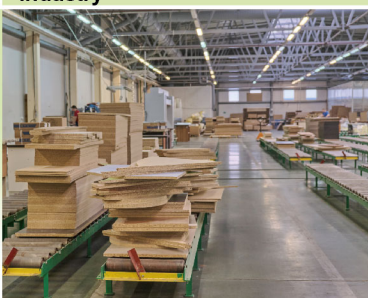
Printing and packaging Industry



Rubber and plastic Industry



Electronic manufacturing Industry



Furniture manufacturing Industry



Pharmaceutical industry



Surface coating, textile printing and dyeing, shoemaking Industry

## FID6000 Packing List

- 1、 Host
- 2、 Portable suitcase
- 3、 Portable bag for sampling tube
- 4、 Solid storage cylinder
- 5、 Power cord
- 6、 Battery cable
- 7、 Battery
- 8、 Blue-tooth printer
- 9、 Sampling tube
- 10、 Spare Titanium sampling head
- 11、 Spare filter element
- 13、 Hydrogen regulator
- 14、 Allen wrench





Test Method		Catalytic oxidation-FID
Max temperature Sample Inlet	180°C	
Detect limit	≤0.13ppm	
Measurement Range	0~10,000 ppm	
Detection Limit	≤0.13 ppm (0.07mg/m <sup>3</sup> Calculated by carbon)	
Linearity	≤±2.0% FS	
RSD	≤2.0 % (CH <sub>4</sub> )	
Recovery rates of Standard Addition	80%~120%	
Response time	≤ 30s	
Parallelism	≤5.0%	
Conversion efficiency	≥95%	
Data Storage	10,000 groups	
Battery	Equipped with lithium battery ≥ 4h	
Gas support	H <sub>2</sub> Continuous use at full capacity for ≥ 8 h	
Weight	Host	6.8kg
	Host + Gas cylinder	7.5kg
	Host + Gas cylinder + Battery	10.7kg
Dimension	(H350×L240×W124)mm	
Consumption	≤400W	
Operating Environment	DC24V or AC(220±10%)V/(50±2%) Hz -15°C~45°C, < 95%RH	

