

## iFiD NMHC

**NMHC Flame-Ionisation-Detector**  
**iFiD NMHC for Mobile for monitoring**  
**of NMHC, THC and CH<sub>4</sub>**

**Complies with EN 12619 & EN 13526**  
**standards for emission monitoring**  
**EN 25140 in preparation**



### Description

The iFiD Mobile NMHC portable flame ionization detector (FID) simultaneously measures the methane content and the sum of hydrocarbons (THC) and calculates the NMHC value in the sample gas. This analyzer is designed for the measurement of organic substances in landfills, gas engines, biofilters, industrial exhaust gases, ambient air measurements but also on fuel cells, during process optimization or on burner test benches.

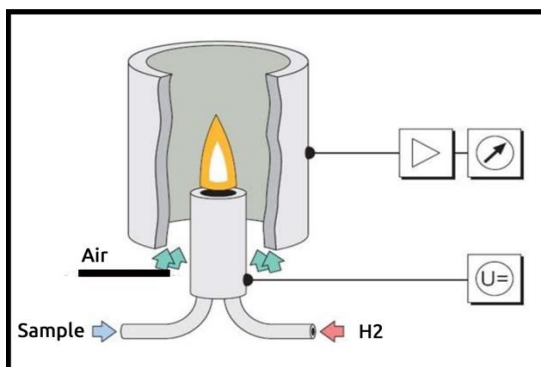
### Special Advantages

- User-friendly Touchpanel 7" TFT
- Single Range – no switch between ranges
- Graphic Display of HC-concentration
- Internal Datalogging by USB Stick
- Internal Response factor correction

### Applications

- Emission monitoring
- Gas engines
- Waste plants and process control
- Biofilter

### Operation principle



### System Performance

Measuring component:	CH <sub>4</sub> , C <sub>x</sub> H <sub>y</sub> and NMHC
Detector temperature:	190°C
Operation:	7" TFT – Touch
Display:	ppmC <sub>3</sub> , ppm C <sub>1</sub> mgC/m <sup>3</sup>
Measuring range:	0 - 100.000 ppm C <sup>3</sup>
Repeatability:	± 1 % of Range
Zero drift:	± 1 % in 24 h
Response time:	appr. 2 Sec. (T <sub>90</sub> )
Warm-up time:	15 minutes
Analogue Output:	0/4-20mA ; 0-10V
Digital Output:	Ethernet , RS232
Data storage:	USB stick
Remote control:	VNC; iFiD Master
<b>Gas Requirements:</b>	
• Fuel	H <sub>2</sub> 5.0 or He/H <sub>2</sub>
• Test gas:	C <sub>3</sub> H <sub>8</sub> / CH <sub>4</sub>
• Zero gas:	synthetic air
• Combustion air:	over built in cat
Fuel consumption:	appr. 70 ml/min H <sub>2</sub> appr. 400ml He/H <sub>2</sub>
Zero / Spangas:	appr. 1 l/min
Flowcontrol:	integrated
Pressure Compensation:	-150mbar +500mbar
Power supply:	115 / 230 V
Frequency:	50 - 60 Hz
Power consumption:	350 W
Ambient temperature:	5°C ... +45°C
Protection class:	IP42
Dimensions (H x W x D):	178x370x420mm
Weight:	14 kg