

## iFiD NMHC

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

**Complies with EN 12619 & EN 13526**  
**standards for emission monitoring**  
**EN 24150 in preparation**



### Description

The stationary Flame-Ionisation-Detector (FID) *iFiD NMHC* measures with its built in NMHC Cutter the methane concentration and parallel in a second channel also the THC in a wide range of applications like stack gas emissions monitoring, ambient air monitoring, thermal reactor and combustor emissions monitoring and also vehicle exhaust gases. The monitoring is continuous with a high accuracy, sensitivity and stability. All components which come in contact with sample are fully heated at 200°.

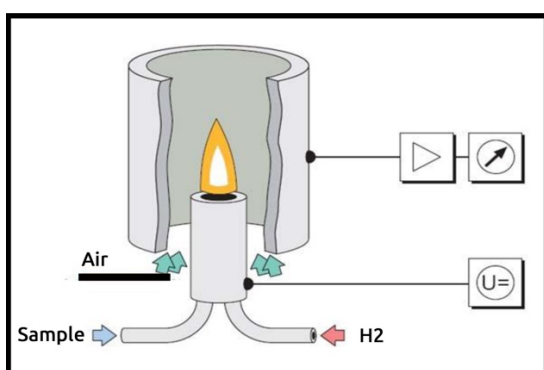
### Special Advantages

- User-friendly Touchpanel 7" TFT
- Single Range – no switch between ranges
- Graphic Display of NMHC, CH<sub>4</sub> and THC
- Heated integrated Samplegasfilter 300°C
- Converter test integrated
- Internal Datalogging by USB Stick

### Applications

- Emission monitoring
- Fuel Cells
- Waste plants and process control
- Landfills

### Operation principle



## iFiD NMHC

### System Performance

Measuring component: CH<sub>4</sub> and C<sub>x</sub>H<sub>y</sub>  
 Operation: 7" TFT – Touch  
 Display: NMHC CH<sub>4</sub> THC  
 Measuring range: 0-10.000 mgC/m<sup>3</sup>

Repeatability: ± 1 % of Range  
 Zero drift: ± 1 % in 24 h  
 Response time: 1 Sec. (T<sub>90</sub>)  
 Warm-up time: 15 minutes

Analogue Output: 0-20mA ; 0-10V  
 Digital Output: Ethernet - RS232  
 Datastorage: USB Stick  
 Remote control: VNC; over tablet

### Gas Requirements:

- Fuel: H<sub>2</sub> 5.0 or He/H<sub>2</sub>
- Span gas: C<sub>3</sub>H<sub>8</sub>
- Zero gas: N<sub>2</sub> or synthetic air
- Combustion air: over built in cat

Fuel consumption: 30 ml/min H<sub>2</sub>  
 150 ml H<sub>2</sub>/He  
 Zero / Spangas: 1 l/min  
 Flowcontrol: integrated  
 Pressure Compensation: -150hPa +500hPa

Power supply: 100 V ... 240 V  
 Frequency: 50 Hz.... 60 Hz  
 Power consumption: 350 W

Ambient temperature: 0°C ... +45°C  
 Protection class: IP40  
 Dimensions (H x W x D): 133x482x420 mm

Weight: 15 kg