

## 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 25140 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°.

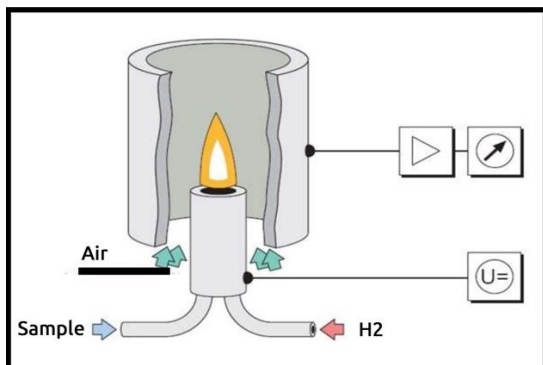
### Special Advantages

- User-friendly Touchpanel 7" TFT
- Single Range – no switch between ranges
- Graphic Display of NMHC, CH<sub>4</sub> and THC
- Heated integrated Samplegasfilter 190°C
- Converter test integrated
- Internal Datalogging by USB Stick

### Applications

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

### 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
Datastorage:	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:	IP40
Dimensions (H x W x D):	133x482x420 mm
Weight:	14 kg