

iFiD NMHC

NMHC Flame-Ionisation-Detector
iFiD NMHC for continuous monitoring of
NMHC, THC and CH₄

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 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°.

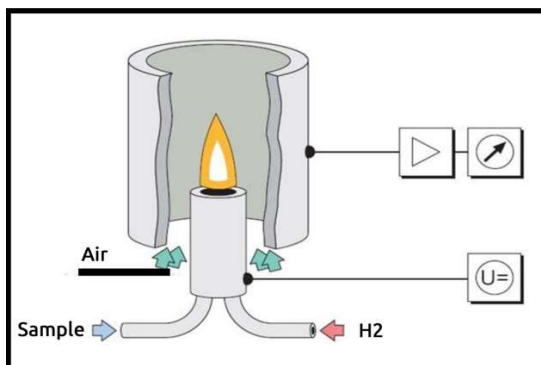
Special Advantages

- User-friendly Touch panel 7" TFT
- Single Range – no switch between ranges
- Graphic Display of NMHC, CH₄ and THC
- Heated integrated Sample gas filter 300°C
- Converter test integrated
- Internal Datalogging by USB Stick

Applications

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

Operation principle



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System Performance

Measuring component: CH₄ and C_xH_y
 Operation: 7" TFT – Touch
 Display: NMHC CH₄ THC
 Measuring range: 0-10.000 mgC/m³

Repeatability: ± 1 % of Range
 Zero drift: ± 1 % in 24 h
 Response time: 1 Sec. (T₉₀)
 Warm-up time: 15 minutes

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

Gas Requirements:

- Fuel: H₂ 5.0 or He/H₂
- Span gas: C₃H₈
- Zero gas: N₂ or synthetic air
- Combustion air: over built-in cat.

Fuel consumption: 30 ml/min H₂
 150 ml H₂/He
 Zero / Span gas: 1 l/min
 Flow control: 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