



# Gas measuring device for Wobbe-Index, Net calorific value and Energy (heat) flow



- Type of measuring unit WI
- Measuring gas all flammable gases
- Kind of measurement Net calorific value or wobbe-index or energy heat flow
- Measuring range free eligible (factory setting)  
50 – 100 % from the measuring range  
full-scale value  
range, example: 50 – 100 MJ / m<sup>3</sup>
- Unit of measurement free eligible (factory setting)  
MJ/m<sub>n</sub><sup>3</sup> \* kWh/m<sub>n</sub><sup>3</sup> \* Mcal/m<sub>n</sub><sup>3</sup>

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- Output signal
  - 0 ... 20 mA (Load:  $\leq 500 \Omega$ )
  - 4 ... 20 mA (Load:  $\leq 500 \Omega$ )
  
- Digital display
  - 3 ½ digits LE-Display
  
- Runtime performance
  - Response time: 3 s
  - T<sub>50</sub> - time: 8 s
  - T<sub>90</sub> - time: ~30 s  
after entry of the measuring gas in the measuring unit  
dependent on the selected measuring range
  - Warm-up period: 30 min
  
- Measuring accuracy
  - Wobbe-Index:  $\pm 1 \%$
  - Energy heat flow:  $\pm 1 \%$
  - Net calorific value:  $\pm 1 \%$   
from the measuring range full-scale value
  
- Gas consumption
  - $\approx 60 - 80$  l/h  
dependent on the selected type of gas
  
- Features
  - manual / automatic calibration
  - Input pressure 8 – 20 mbar
  - Safety device appealing by shortage of gas or cooling air and by power failure
  - automatic ignition device
  - Wall-mounting case  
600 x 760 x 210 mm (H x B x D)
  - Painting RAL 7032
  
- Degree of protection
  - Wall-mounting case IP10
  - Fan-unit IP 54, according DIN 40050 / IEC 529
  
- Weight
  - Measuring unit approx. 40 kg
  - Fan-unit approx. 22 kg
  
- Power supply
  - 115 / 230 V 50 (60) Hz
  
- Connections
  - Measuring gas / test gas:  
Cutting ring connector  $\varnothing$  8 mm
  
- Applications
  - Gas turbines, bio- and landfill gas, natural gas, refineries, chemical plants, blast-furnace plants, coke oven plants, steel factories, power plants, glas and porcelain factories