



# Gas measuring device, RBM 2000



- Type of measuring unit RBM 2000
- Measuring gas all flammable gases
- Kind of measurement Net or gross calorific value, wobbe-index, density and minimum air requirement
- Measuring range free eligible (factory setting)  
Measurement between 3 – 100 MJ
- Unit of measurement free eligible (factory setting)  
 $\text{MJ/m}_n^3$  \*  $\text{kWh/m}_n^3$  \*  $\text{Mcal/m}_n^3$
- Output signal - 0 ... 20 mA (Load:  $\leq 500 \Omega$ )  
- 4 ... 20 mA (Load:  $\leq 500 \Omega$ )  
per measuring signal, galvanic isolated
- Display LC-Display, 16 lines per 40 characters

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- Runtime performance
  - Response time: 1 s
  - T<sub>50</sub> - time: 4 s
  - T<sub>90</sub> - time: ~10 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: < 1 %
  - Density: < 1 %
  - Net calorific value: < 1 %
  - Min. air requirement: < 1 %  
measured for natural gases from  
measuring range full-scale value < 0,7 %
- Gas consumption
  - ≈ 80 – 150 l/h  
dependent on the selected type of gas
- Features
  - manual / automatic calibration
  - Input pressure 20 – 30 mbar
  - Safety device appealing by shortage of gas or  
cooling air and by power failure
  - Flame control
  - automatic ignition device
  - Error indication
  - Wall-mounting case  
600 x 760 x 210 mm (H x B x D)
  - Painting RAL 7032
  - High precision density measuring cell
  - Air supply with fan unit or pressurized air
- Degree of protection
  - Wall-mounting case IP10
  - Fan-unit IP 54, according DIN 40050 / IEC 529
- Weight
  - Measuring unit approx. 70 kg
  - Fan-unit approx. 20 kg
- Power supply
  - 115 / 230 V 50 (60) Hz
- Connections
  - Measuring gas / test gas:  
Cutting ring connector Ø 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