

HL 860

Exhaust gas analyser



Learning objectives/experiments

- measurement of residual oxygen in the flue gas of heating systems
- measurement of carbon monoxide
- measurement of nitrogen oxide
- measurement of flue gas and combustion air temperature

Specification

- [1] portable flue gas analyser in a robust case, for heating systems
- [2] simultaneous measurement of combustion air and flue gas temperature, residual oxygen, carbon monoxide, nitrogen oxides
- [3] calculation of carbon dioxide, excess air, fuel-air ratio, efficiency and heat losses
- [4] remote control unit with integrated display
- [5] internal memory for measured values
- [6] rechargeable battery operation or mains operation possible
- [7] USB interface

Technical data

Measuring ranges

- O₂: 0...21%
- CO: 0...10000ppm
- NO_x: 0...1000ppm
- temperature:
 - ▶ 0...800°C (exhaust gas)
 - ▶ 0...100°C (combustion air)
- differential pressure: -100...100mbar

230V, 50Hz, 1 phase
 230V, 60Hz, 1 phase
 120V, 60Hz, 1 phase
 LxWxH: 470x220x300mm
 Weight: approx. 7kg

Required for operation

PC with Windows recommended

Scope of delivery

- 1 experimental unit with case
- 1 manual

Description

- measurement and calculation of all flue gas relevant parameters
- thermal printer and PC interface integrated

HL 860 serves as an accessory for flue gas measurements of various oil and gas burners such as HL 352 Test stand for oil, natural gas and propane gas burners. The unit enables, amongst other aspects, the O₂, CO, nitrogen oxides and soot in flue gases to be measured at the same time as the flue gas and combustion air temperature are measured. For defined fuels CO₂, CO/CO₂, excess air, fuel-air ratio, efficiency and heat losses are calculated.

The device includes a remote control unit with display to visualise the measured values, an internal memory for measured values and a thermal printer for fast documentation. A PC can be connected to the USB interface. Power can be supplied either using a rechargeable battery, or from the mains.

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Optional accessories

HL 350	Oil burner demonstrator
HL 351	Domestic heating boiler
HL 352	Test stand for oil, natural gas and propane gas burners
HL 353	Hot water generator