

HL 860

Exhaust gas analyser



Description

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

Power can be supplied either using a rechargeable battery, or from the mains. The unit enables, amongst other aspects, the O₂, CO, CO₂ and nitrogen oxides in flue gases from domestic heating boilers to be measured at the same time as the flue gas and combustion air temperature are measured.

Along with the display, the portable unit is equipped with a thermal printer and a USB interface. A PC can be connected to the USB interface.

Learning objectives/experiments

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

Specification

- [1] portable flue gas analyser in metal case, for heating systems
- [2] simultaneous measurement of combustion air and flue gas temperature, residual oxygen, carbon monoxide, flue gas loss, combustion efficiency, ideal draught and excess air number
- [3] rechargeable battery operation or mains operation possible
- [4] USB interface

Technical data

Measuring ranges

- O₂: 0...20,9%
- CO: 0...2000ppm
- CO₂: depends on fuel
- NO_x: 0...500ppm
- excess air number: 1,00...9,99
- flue gas loss: 0...99%
- combustion efficiency: 0...99%
- ideal draught: ±60hPa
- temperature:
 - ▶ -20...1000°C (exhaust gas)
 - ▶ -20...120°C (combustion air)

230V, 50Hz, 1 phase
 230V, 60Hz, 1 phase
 120V, 60Hz, 1 phase
 LxWxH: 430x220x190mm
 Weight: approx. 7kg

Required for operation

PC with Windows recommended

Scope of delivery

- 1 experimental unit with case
- 1 manual

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Optional accessories

065.35000	HL 350	Oil burner demonstrator
065.35100	HL 351	Domestic heating boiler
065.35200	HL 352	Domestic water heating system
065.35300	HL 353	Hot water generator