

MKAS Compact Compact Analyzer System

Proven technology in a compact design
Small footprint and economical to operate
Elegant solution for the analysis of NO_x, CO, SO₂ and O₂



A complete analyzer system in a small package

The MKAS Compact from SICK provides a complete analyzer system including all the necessary standard components. One of two proven analyzers can be selected: the SIDOR with long-term signal stability or the modular S710.

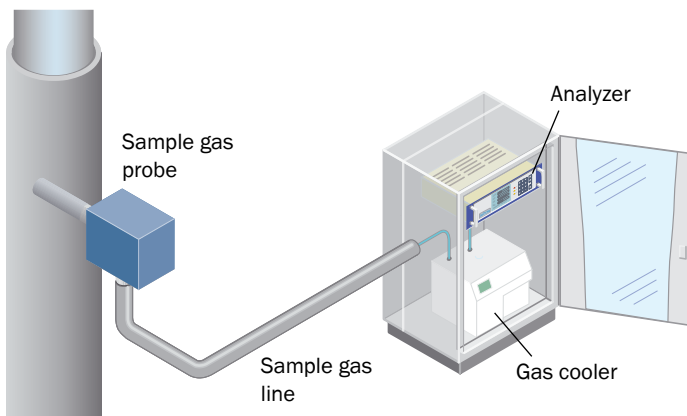
Integrated in the system is one of the most advanced gas coolers on the market which is supplied with a particulate filter and flow meter in addition to the condensate drain pump.

The MKAS Compact is a gem because it takes up very little wall mounting space and the maintenance requirements are very low.

The MKAS Compact, pre-configured and complete is the logical solution for measuring components such as NO_x, CO, SO₂ and/or O₂.

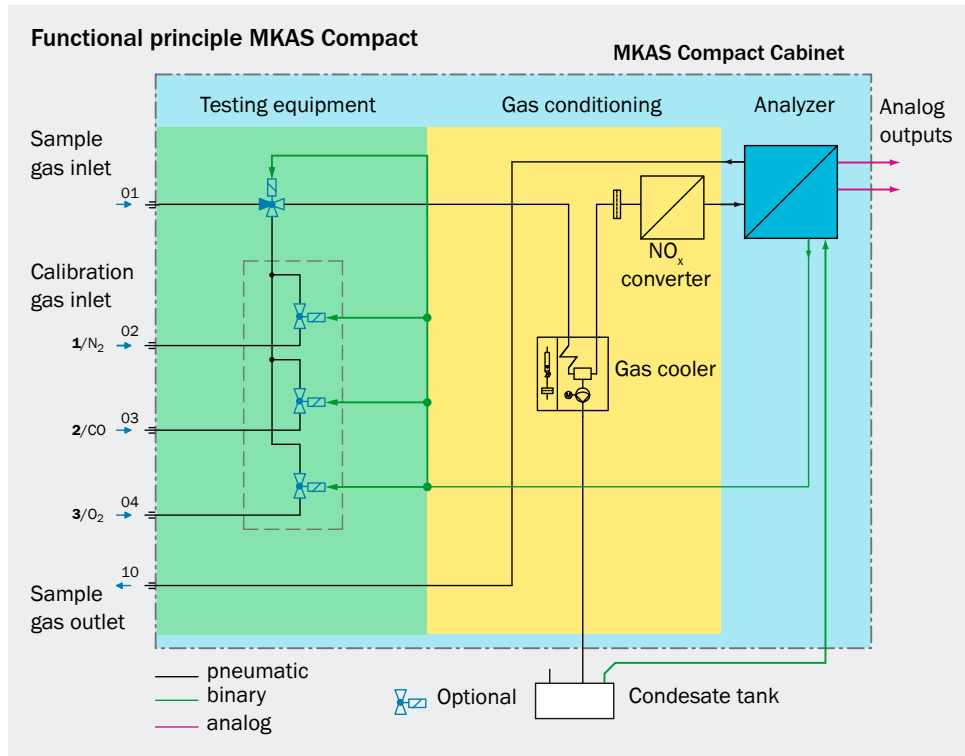
At a Glance

- Standardized system in a compact design
- Small footprint (wall mounting)
- Light weight (80 kg/175 lb)
- Efficient operating cost through low maintenance and low power consumption
- Suitable for emission monitoring to meet the requirements of
 - 2001/80/EC
 - 27th BImSchV (Crematories)



Options

- Condensate sensor (after the cooler)
- Signal conversion to RS485 Modbus with an intelligent terminal
- Automatic test gas delivery via solenoid valves
- 2-stage gas cooler
- NO_x converter at analyzer inlet (optional)
- 400 V, 3 phase voltage supply



Technical Data	MKAS Compact	
Configuration	<ul style="list-style-type: none"> • Standard configuration • Configuration with NO_x converter and cooling unit 	
Analyzer	<ul style="list-style-type: none"> • S710 Modular gas analyzer (see product information, order no. 8009716) • SIDOR gas analyzer (see product information, order no. 8009736) 	
Measuring components	CO, NO, SO ₂ , O ₂ etc. (depending on analyzer configuration, see product information)	
Output and status signals	Typically 4 ... 20 mA (depending on analyzer configuration, see product information)	
Sample requirements		
Sample flow rate	Approx. 60 ... 100 l/hr	
Sample temperature	Max. 200 °C (390 °F) at cabinet inlet	
Dewpoint H₂O	Max. 65 °C (150 °F)	
General Data	Standard configuration	NO_x converter with cooling unit
Installation location	<ul style="list-style-type: none"> • Under a roof or protected from direct thermal radiation, high dust concentration and corrosive atmospheres • Not suitable for use in explosion-hazardous areas 	
Power supply	230 V (+10/-15 %), 50 Hz, 25 A, max. 5 kVA, external max. 3.5 VA	
Ambient temperature during operation	+5 ... +35 °C (40 ... 95 °F) *) +5 ... 50 °C with built-in cooling unit	+5 ... +35 °C (40 ... 95 °F) *)
Transport and storage temperature	-20 ... +55 °C (-4 ... 130 °F)	
Relative humidity	Class F (DIN 40040), 75 % yearly average, 95 % short-term, non-condensing	
Internal pump	Suitable for up to 35 m (115 ft) sample gas line	
Dimensions (H x W x D)	Approx. 1000 x 600 x 500 mm (40 x 24 x 20 in)	Approx. 1.000 x 800 x 500 mm (40 x 31.5 x 20 in)
Protection class	IP 54, IP 34 with cooling unit	IP 34 with cooling unit
Weight	Approx. 80 kg (175 lb)	Approx. 95 kg (210 lb)
Material	Sheet steel enclosure	
Calibration	Manual, test gas entry via manual valve	
Signals	1 analog output/component	
Interfaces	RS485 (optional)	

*) without direct exposure to sunlight