

Infrared gas analysers



- Extremely small measuring ranges
- Selective measurement of up to four gas components
- Tested components for measurements as per German TA-Luft and 13./17. BImSchV

Application

- Room air monitoring (CO, CO₂, difluorodichloromethane)
- Monitoring of activated carbon filters (CO, CO₂)
- Monitoring of inertisation (CO₂, O₂)
- Monitoring of biological processes (CO₂, O₂)
- Measurement of landfill gases (CH₄, CO₂)
- Monitoring of cold stores (O₂, difluorodichloromethane)
- Optimisation of boilers (CO, O₂)

Description

This NDIR unit provides continuous operation and can selectively measure and display the concentrations of up to four different gas components. The NDIR (non-dispersive infrared absorption) measuring principle is based on the absorption of infrared radiation by heteronuclear molecule gases with several atoms. Optimum sensitivity and high selectivity with regard to other components in the measurement gas are achieved by means of opto-pneumatic radiation receivers. An optional electro-chemical sensor makes it possible to additionally measure the O₂ concentration. Measuring range for O₂ up to 25 % by volume. The conventional method with test gas can be used for calibration. If the optional calibration unit is used, test gas cylinders are not required.

Technical specifications

Operating temperature range

Ambient 5/40 °C

Supply voltage

AC 230 V

Gas throughput

20 / 100 l/h

Analogue output

4–20 mA

Interface

RS 232

Display

4-digit lit LCD

Setup time

15 s

Heat-up time

30 min

Gas inlet/gas outlet

Compression fitting Ø 4 x 1 mm

Housing

19" rack housing 4 U

Weight: Approx. 10 kg

Approval

for measurement as per German TA-Luft and 13./17. BImSchV for the following components:

- 0 to 250 mg CO
- 0 to 500 mg SO₂
- 0 to 400 mg NO
- 0 to 10/25 O₂ % by volume

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We are continuously extending the product range of measured components and combinations. An AFRISO expert will be pleased to answer any questions you have concerning your application.

PG: 4	Part no.	Price €
Infrared gas analyser CO	69966	
Infrared gas analyser CO₂	69967	
Infrared gas analyser NO	69968	
Infrared gas analyser SO₂	69969	
Infrared gas analyser CO, CO₂	69971	
Infrared gas analyser CO, NO	69972	
Infrared gas analyser CO, SO₂	69973	
Infrared gas analyser NO, SO₂	69974	
Infrared gas analyser NO, CO₂	69975	
Infrared gas analyser NO, CO, SO₂	69976	
Extra charges (option)		
O₂ measurement 0–25 % by volume	69977	
Wall mounting housing WAG IR-A	69970	On request
Pneumatic unit (pump and flow monitoring)	69983	

Blue part no. = in-stock items