

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, fluorocarbons)
- 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 integrated calibration unit is used, test gas cylinders are not required.

Technical specifications

Supply voltage: AC 230 V

Gas throughput: 20 to 100 l/h

Analogue output: 4–20 mA

Interface: RS 232 C/V.24

Display: 4-digit lit LC display

Setup time: 15 s

Heat-up time: 30 min

Housing

19" rack housing or wall mounting housing

Weight: Approx. 10 kg

Tested

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

Options

- Wall mounting housing
- Pneumatic unit

DG: E	Part no.	Price €
IR analyser CO	69966	
IR analyser CO₂	69967	
IR analyser NO	69968	
IR analyser SO₂	69969	
IR analyser CO/CO₂	69971	
IR analyser CO/NO	69972	
IR analyser CO/SO₂	69973	
IR analyser NO/SO₂	69974	
IR analyser NO/CO₂	69975	
IR analyser NO/CO/SO₂	69976	
Extra charges (option)		
O₂ measurement	69977	
Wall mounting housing	69970	
Calibration unit for 1 IR component	69981	
2 calibration units for 2 IR components	69982	
Pneumatic unit (pump and flow monitoring)	69983	
Second measuring range for single-channel devices	69986	
Second measuring range for multi-channel devices	69987	

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