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

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.

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

### Description
- 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

### Technical specifications
- 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

<table>
<thead>
<tr>
<th>DG: E</th>
<th>Part no.</th>
<th>Price €</th>
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<tbody>
<tr>
<td>IR analyser CO</td>
<td>69966</td>
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<tr>
<td>IR analyser CO₂</td>
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<tr>
<td>IR analyser NO</td>
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<tr>
<td>IR analyser SO₂</td>
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<tr>
<td>IR analyser CO/CO₂</td>
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<td>IR analyser CO/NO</td>
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<tr>
<td>IR analyser CO/SO₂</td>
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<td>IR analyser NO/CO₂</td>
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<td>IR analyser NO/CO/SO₂</td>
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<td>Extra charges (option)</td>
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<tr>
<td>O₂ measurement</td>
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<td>Wall mounting housing</td>
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<tr>
<td>Calibration unit for 1 IR component</td>
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<td>2 calibration units for 2 IR components</td>
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<td>Pneumatic unit (pump and flow monitoring)</td>
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<td>Second measuring range for single-channel devices</td>
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<tr>
<td>Second measuring range for multi-channel devices</td>
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</table>

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.