



## Infra.Sens AK50

**Product code:** Infra.Sens AK50

**Manufacturer:** Wi.Tec

The INFRA.sens was specially developed for high-quality NDIR gas analysis. In the design phase, special emphasis was placed on high stability and a low detection limit. With the use of high-performance light emitting diodes (IR-LED) and thermal micro radiators, which were adapted to the needs of gas measurement technology, these goals were achieved in full.

In the spectral range from 2  $\mu\text{m}$  to 12  $\mu\text{m}$ , carbon dioxide, carbon monoxide, hydrocarbons and nitrous oxide can be reliably detected up to the ppm range with this new sensor platform.

### Applications:

- Environmental and Process Measurement Technology (CEM)
- Engine development
- TOC analyzers
- Elemental analysis
- Industrial gas analysis
- Natural gas/biogas analysis
- Process measurement technology
- Biogas research
- Measurement of CO<sub>2</sub>, CO, CH<sub>4</sub>, SF<sub>6</sub>, N<sub>2</sub>O, HC, H<sub>2</sub>O, CF<sub>4</sub> in combination (up to 3 gases ) or as single gas module are possible

<b>Accuracy</b>	$\pm 2$ % F.S.
<b>Energetic consumption</b>	< 10 Watt
<b>Measurement range</b>	< 20 Vol.%



**Tecnosens S.p.A.**  
Via Vergnano,16 25125  
Brescia (BS) Italia

Tel: (+39) 030 3534144  
Fax: (+39) 030 3530815  
info@tecnosens.it  
PEC: tecnosens@legalmail.it

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<b>Temperature range</b>	5°C - 45°C
<b>Target Gas</b>	Multigas
<b>Response Time</b>	3 seconds (T90)
<b>Output</b>	RS232, Can, Analog