



Ultra.Sens AK100

Product code: Ultra.Sens AK100

Manufacturer: Wi.Tec

The ULTRA.sens is the world's first OEM gas measurement module based on miniaturized UV LEDs. The stability and lifetime of these UV-LEDs enables high-precision gas analyses down to the ppb range. By using two UV-LEDs 2 gases can be detected simultaneously. With this approach, 2 measuring ranges from ppm to Vol.-% can also be realized.

In the spectral range from 200 nm to 500 nm, nitrogen oxides (NO+NO₂), aromatic hydrocarbons, hydrogen sulphide, ozone, sulphur dioxide and chlorine can be reliably detected with this novel 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 SO₂, NO₂, NO, H₂S, CL₂, O₃ in combination (3 gases) or as single gas module are possible

Accuracy

±2 % F.S.

Energetic consumption

< 3 Watt @ 24 VDC



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Measurement range	< 1 Vol.%
Temperature range	5°C - 45°C
Target Gas	Multigas
Response Time	1 second (T90)
Output	RS232, Can, Analog