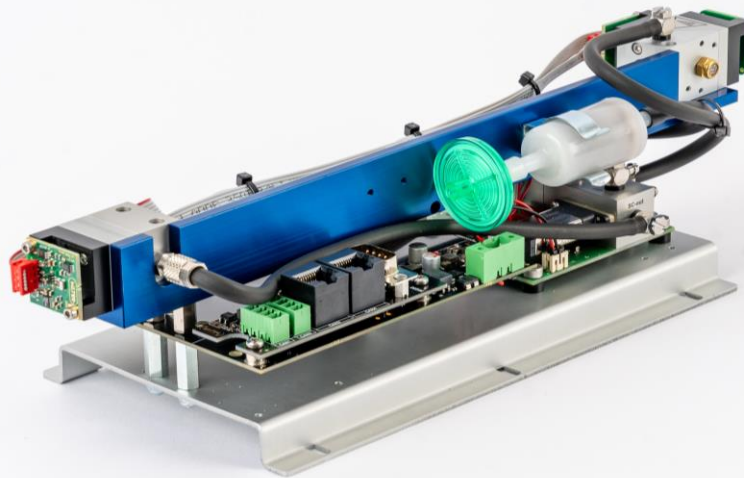


ULTRA.sens® AK250/AZF VP

high precision NDUV Gas Sensor for O₃



Overview



ULTRA.sens® AK250/AZF VP

Applications

- > Laboratory area
- > Industrial gas analysis
- > disinfection technology
- > Portable gas analysis (PEMS)²

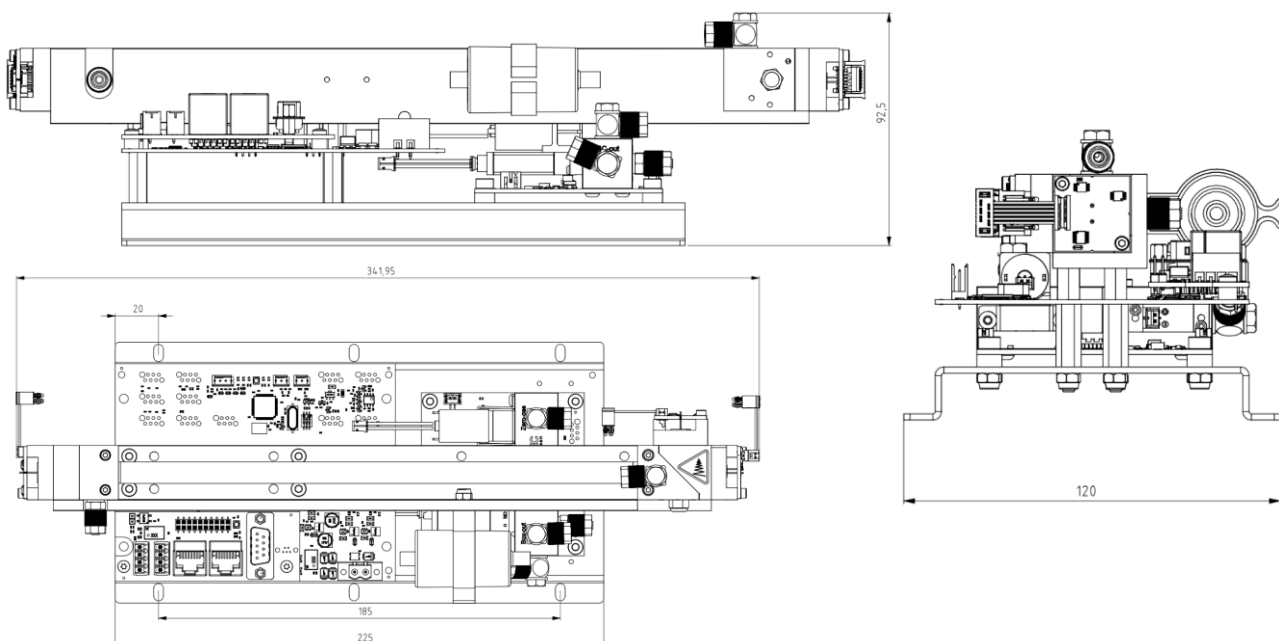
Options

- > P.sens (Pressure sensor)
- > HUMI.sens® (Humidity sensor)
- > Analogboard (0-10V)
- > Additional Gas-channel SO₂ or NO₂ or Cl₂

Features & Benefits

- > Low range ozone measurement
- > No drift with Auto-Zero-Function
- > Internal ozone-scrubber
- > Fast response time
- > No influence of gas humidity
- > Mercury free design

Dimensions



For more and most recent information please have a look on our website at www.witec-sensorik.de/en/

¹² Portable Emission Monitoring System

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Technical Data

General features

Measurement principle	Non- dispersive ultraviolet (NDUV) ; dual beam
Measurement range	1.000ppb / 100ppm O ₃
Gas flow	0.1 – 2 l/min
Dimensions [L x W x H]	342mm × 120mm × 93mm
Weight	830g
Tube connector	4/6mm tube
Lifetime of UV radiation source	>10 000h [LED; O ₃]
Maintenance interval O ₃ scrubber	1 year

Measuring response²

Warm-up time	< 15min ³
Response time(t ₉₀)	< 5s ⁴
Detection limit LOD (3·σ)	< 0,3% F.S ⁵
Digital resolution	0.01ppb
Linearity error	< ± 0.75% F.S.
Repeatability	± 0.5% F.S.
Long term stability (zero)	< 1%F.S / 4h ³ < 1% F.S /month with AZF ¹ active
Long term stability (span)	< ± 0,5% F.S./month
Temp. Influence zero	< 1% F.S./10K
Temp. Influence span	< 1% F.S./10K
Pressure influence	< 1.5%/10hPa of reading ⁷

Electrical inputs and outputs

Supply voltage	15..30 VDC
Supply current (peak)	< 120mA
Supply current (average)	≤ 70mA
Power consumption (peak)	≤ 3W
Digital output signal	RS 232 (ASCII) , CANbus , Modbus (RTU)

Climatic conditions

Operating temperature	5 – 40 °C ⁸
Storage temperature	-20 – 60 °C
Air pressure	300 – 1200 hPa (mbar)
Ambient humidity	0 – 95% rel. humidity (not condensing)

F.S. full scale ¹ Autozero-Function ² related to P_a = 1020hPa ; T_a= 25°C ; flow = 1l/min ³ full specification after 6h, demands to environmental conditions ⁴ depends on digital filter settings ⁵ at zero point ⁷ without pressure compensation ⁸ stable climatic conditions recommended, please check dewpoint considerations



The Gas Measurement Company

CAUSE IT MAKES .SENS

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