



# ULTRA.sens® H2S-AK100

H <sub>2</sub> S						
Single Gas Module	gas channel 1	gas channel 2	gas channel 3	gas channel 4	Option*	
				H <sub>2</sub> S		O <sub>2</sub>

\* P = pressure sensor

## List of measurement ranges

Measuring range*	H <sub>2</sub> S
100Vol.%	
50Vol.%	
30Vol.%	
20Vol.%	
10Vol.%	
5Vol.%	
1Vol.%	
5000ppm	✓
2000ppm	✓
1000ppm	✓
500ppm	✓
300ppm	
100ppm	✓
50ppm	
10ppm	

\* Full scale value (F.S.)



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# ULTRA.sens® H2S-AK100

H<sub>2</sub>S

General features	
Measurement principle	NDUV
Measurement range	see list of measurement ranges
Gas flow	0.1 – 1.5 l/min
Dimensions	300mm x 98mm x 80mm
Weight	Approx. 1670g
Tube connector	4/6mm tube
Lifetime of UV radiation source	> 8 000h <sup>1</sup>
Measuring response <sup>2</sup>	
Warm-up time	1 min (initial), <60 min <sup>3</sup>
Response time(t <sub>90</sub> )	1.5s – 15s <sup>4</sup>
Detection limit (3·σ)	< 1ppm <sup>5</sup>
Linearity error	< ± 1% F.S.
Repeatability	± 0.5% F.S.
Long term stability (zero)	< ± 1% F.S./24h
Long term stability (span)	< ± 1% F.S./month
Temp. Influence zero	< 1% F.S./10K
Temp. Influence span	< 2% F.S./10K
Pressure influence	< 1.5% /10 hPa of reading <sup>6</sup>
Electrical inputs and outputs	
Supply voltage	24 (15 – 30) VDC
Supply current (peak)	< 0.4A
Average power consumption	< 7.5W
Digital output signal	RS 232 (ASCII) or CAN bus
Climatic conditions	
Operating temperature	25 – 45 °C
Storage temperature	-20 – 60 °C
Air pressure	800 – 1200 hPa (mbar)
Ambient humidity	0 – 95% rel. humidity (not condensing)

F.S. full scale

<sup>1</sup> EDL: 50% intensity drop

<sup>2</sup> related to P<sub>a</sub> = 1020hPa ; T<sub>a</sub> = 25°C // flow = 1l/min

<sup>3</sup> full specification

<sup>4</sup> depends on digital filter

<sup>5</sup> at zero point

<sup>6</sup> without pressure compensation



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Subject to change without notice. // 2020-08 Rev.01