

## Unisense H<sub>2</sub>S Microsensor Specifications

		Standard	Options	Extra price for option selection
<b>Glass sensors</b>	Outside tip diameter	H <sub>2</sub> S-10 (8-12μm) H <sub>2</sub> S-25 (20-30μm) H <sub>2</sub> S-50 (40-60μm) H <sub>2</sub> S-100 (90-110μm)	3-5 μm	20%
		H <sub>2</sub> S-500 (400-600μm) H <sub>2</sub> S-MR (400-600μm) H <sub>2</sub> S-Eddy (10-20μm)	100-400, 600-800μm	20%
	Diameter 20mm from tip	< 2mm	< 1mm	10%
	Diameter 50mm from tip	8mm	< 2mm	20%
<b>Needle sensors</b>	Needle length (H2S-N)	40mm	<a href="#">See Customizations</a>	+ 10%
	Needle diameter (H2S-N)	1.1mm	<a href="#">See Customizations</a>	+ 10%
	Position of sensing tip	Exposed but protected		
<b>All sensors</b>	Total length	150-200mm	70-350mm	20-50%
	Glass shaft diameter	8mm		
	Plastic shaft protection diameter*	11mm	Can be omitted	
	<b>Cabling etc.</b>			
	Cable	Habia		
	Cable length	1.5-2 m	0-20 m	Yes, depends on length
	Connector	LEMO	BNC adapter	yes, order separately
	In situ gold pin connector	No	Yes	
	<b>Characteristics</b>			
	Internal reference	Yes		
	Internal guard	Yes		
	Waterproof	Yes		
	Temperature range	-2°-60°		
	Guaranteed life time	3 months		
	Expected life time	> 6 months		
	Spatial resolution	Equals outside tip diameter		
	Temperature coefficient	2-3% per °C		

	Range	about 0-5 mM H <sub>2</sub> S in water	0-50 mM	20%
	Linear range	about 0-300 μM H <sub>2</sub> S in water	0-20 mM	20%
	Stirring sensitivity	< 2%		
	Detection limit	0.3μM	< 0.1 μM	20%
	Signal drift	0-50% per month		
	Response time (90%)	< 10s (H <sub>2</sub> S-500 < 20s)		
	Known Interference	H <sub>2</sub> , linear interference: 1 μM H <sub>2</sub> = 0.015 μM H <sub>2</sub> S Light		

\* When mounted with in situ mini connectors, the shaft has no protection mounted, but fits directly into the in situ sensor mounts with pressure compensation. In situ sensors have a standard length of 130-160 mm.



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