BlueSens
gas sensor GmbH

Data Sheet

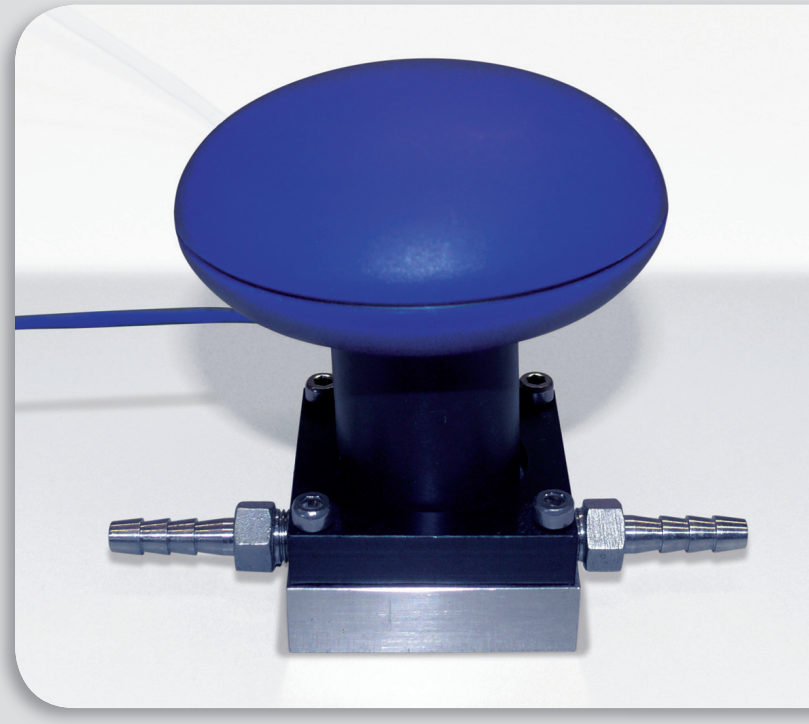
BCP-H_2

Advantages

- reasonably priced
- in-situ measurement
- low maintenance
- independent from gas flow
- direct integration in gas pipes possible
- no gas cooler, pumps or valves necessary
- easy to use

Application areas

- chemical industry
- biogas production
- agriculture
- algal hydrogen production



Hydrogen sensor BCP-H_2 for in-situ measuring

BlueSens.com

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BCP-H_2

Sensor	BCP-H_2	
Measuring principle	Thermal conductivity detector	
Concentrations ranges	H_2: 0 – 10 Vol.%, 0 – 50 Vol.%, 0 – 100 Vol.%*	
Accuracy	< 0,2% FS* ± 3% reading **	
Drift	< ± 2% reading / year	
Temperature ranges	15 – 40 °C 59 – 104 °F 30 – 55 °C 86 – 131 °F -25 – 55 °C* -13 – 131 °F*	
Pressure range	0.8 – 1.3 bar* / 11.6 – 18.85 psi*	
Housing	Aluminum (IP65)	PA
Dimension mm *Dimension inch* *Weight*	100 x 131 x 118 (W x D x H) 3.94 x 5.16 x 4.64 (W x D x H) 900g (1.98lb)	80 x 130 (D x H) 3.15 x 5.12 (D x H) 350g (0.77lb)
Cross sensitivity	10% CO_2: -0.95% H_2	
	10% CH_4 : +1.28% H_2	
Internal sensor temperature	70 °C (158° F)	
Materials in contact with gas	Steel 1.4571, Viton, LPCVD silicon nitride	
Lifetime of sensor element	approx. 3 years	

General		
Mechanical connection	G 1¼" , GL 45, Tri-Clamp SMS38, hose connection 4 – 12 mm, etc.	
Power Supply	12 – 24 V, 1A	
Output	RS 232, 4 - 20 mA, RS 485***, Ethernet***, USB***	
Storage	0 °C – +60 °C	32 °F – 140 °F
	< 75%RH non condensing	
Maintenance	1-point calibration once per month. Optional factory calibration once a year.	
Remarks	Don't use in explosive environments.	

*others on request **full scale ***optional

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