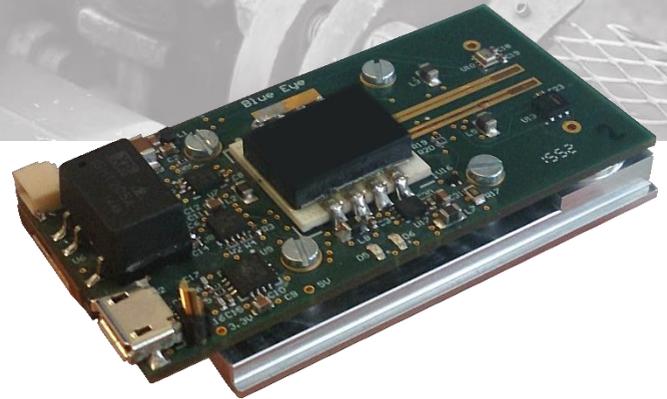


BlueEye™ OEM



Gas quality sensing unit
Reliable, no moving parts
Fast response time
Ultra-low CAPEX, no OPEX



About the BlueEye™ OEM

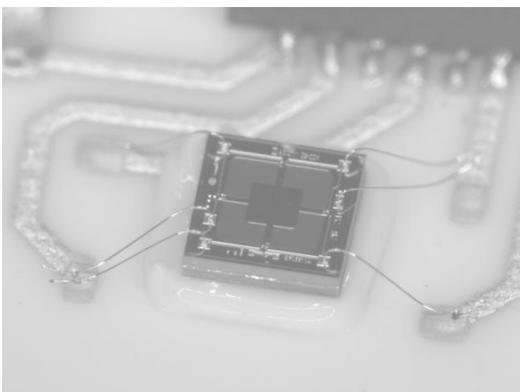
The BlueEye™ OEM is a ultra-low CAPEX gas quality sensing unit designed for continuous measurement of combustible gases. The device measures the combustion properties and calorific content of gas mixtures, even when containing high CO₂ and H₂ content.

Gas is flowing in and out the BlueEye™ OEM through SMC connectors and measurement output options are digital transfer through USB or UART.

The BlueEye™ OEM uses Bright Sensors' patented MEMS gas viscometer technology, and is specifically developed for off grid, mobile, point of use, testing, validation and energy allocation purposes.

Features

- Measurement output - WI, HHV or LHV
- Accurate, <2% on pipeline gas
- Maintenance free
- Continuous 10 seconds measurement
- Standard ABS enclosure, optional Ex-D enclosure
- Reliable - No moving parts or chemical reactions
- Communication – digital data USB or UART
- Input Power – 12V or USB 5V
- CE in progress
- Easy integration into OEM product



BlueEye™ OEM Specifications

Measurement Range	Wobbe Index (WI)	30-60 MJ/m ³ - 15°C/15°C
	Higher Heating Value (HHV)	25-55 MJ/m ³ - 15°C/15°C
	Lower Heating Value (LHV)	22-50 MJ/m ³ - 15°C/15°C
Accuracy	<2% of reading	
Precision	±0.1MJ/m ³	
Dynamics	One measurement every 10s, reaction time T90 < 60s	

Gas Composition Range	Methane	60-100 mol%	Carbon Dioxide	<12 mol%
	Ethane	0-14 mol%	Oxygen	<3 mol%
	Propane	0-5 mol%	Hydrogen	<20 mol%
	Butane	0-3 mol%	Water (Gaseous)	<1 mol%
	Higher Alcanes	0-1 mol%	Particulates, Liquids	Without
	Nitrogen	0-22 mol%		

Electrical and Mechanical Specifications

Measurement Output	USB to Windows laptop
	UART
Supply Voltage	USB 5V, 12V dedicated connector
Dimensions and Weight	64×38×20 mm, 0.2kg
Gas Connections	SMC 4mm

Operating Conditions

Operating Temperature	-20°C to 70°C
Operating Humidity	0-95 %RH, non-condensing
Storage Temperature	-40°C to 70°C
Operating Gage Pressure	< 250 mbar
Flow	> 5mL/min
Certifications	CE in progress

BlueEye OEM Specs June 2020

