

BlueEye™ Mobile



Mobile gas quality analyzer
Reliable, no moving parts
Fast response time
Low CAPEX, no OPEX

About the BlueEye™ Mobile

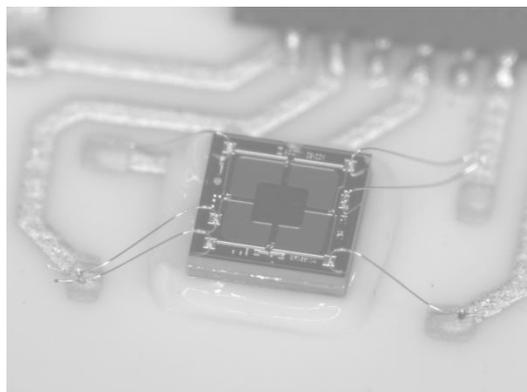
The BlueEye™ Ex-D is a low CAPEX gas analyzer designed for continuous measurement of combustible gases. The device can measure the combustion properties and calorific content of gas mixtures, even when containing high CO₂ and H₂ content.

Gas is flowing in and out the BlueEye™ Mobile through quick coupling connectors and data is digitally transferred to a Windows laptop or a smartphone via a USB connection.

The BlueEye™ Mobile uses Bright Sensors' patented MEMS gas viscometer technology combined with other off-the-shelf inference measuring MEMS sensors, and is specifically developed for boiler commissioning and tuning (periodic obligatory checks), energy allocation after the meter and emission monitoring.



Features



- Measurement output - WI, HHV, LHV or MN
- Accurate, <2% on pipeline gas
- Maintenance free
- Continuous 10 seconds measurement
- IP 66/EN 60529 enclosure
- Reliable - No moving parts or chemical reactions
- Communication – digital data through USB
- Input Power - USB 5V (laptop or smartphone)
- CE in progress
- Plug-and-play device

BlueEye™ Mobile 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
	Dedicated iPhone & Android App
Supply Voltage	USB 5V (laptop or smartphone), < 1W
Dimensions and Weight	180mm x 80mm x 42mm, 0.5kg
Gas Connections	Quick coupling Parker 2.5 mm

Operating Conditions

Operating Temperature	0°C to 50°C
Operating Humidity	0-95 %RH, non-condensing
Storage Temperature	-40°C to 70°C
Operating Gage Pressure	< 250 mbar
Flow	> 5mL/min
Certifications	IP 66/EN 60529 enclosure, CE in progress

BlueEye Mobile Specs June 2020

