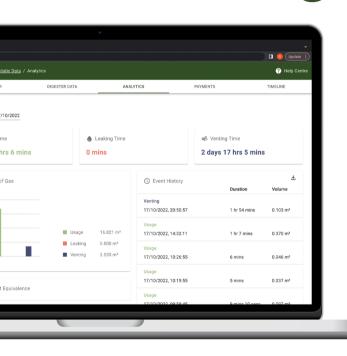


About

Smart Biogas



Smart Biogas is a remote monitoring and analytics solution for biogas companies.

Smart Biogas collects pressure, flow and gas consumption data from biogas digesters and feeds it back to our software platform. Advanced analytics in our software enable biogas owners and technicians to work together to keep digesters operating effectively, whilst biogas organisations can monitor their portfolio and reduce monitoring and evaluation overheads.

Our accurate sensing solutions means that Smart Biogas enables pay-as-you-go biogas and an easier, more accurate route to carbon abatement reporting.



customer communication.

Using mobile data connectivity and 42 days local data storage for areas with weak network, enabling data collection even from the most remote places.



Smart Biogas

Smart Meters

Our smart meters come in a range of sizes, split across the 'standard range' for cleaned gas and less harsh environments, and the 'raw range' for biogas with high water and corrosive gas content. Smart Biogas can monitor any digester type and flow ranges from 0 to 62 m3/hour and pressure ranges from 0 to 5 Bar.

Smart Biogas is powered with a rechargeable lithium-ion battery with 3 days worth of autonomy from a full charge. Included in the box is either a 6W solar panel or an AC/DC adapter to keep the device running 24/7.



Specifications

Smart Biogas - Standard range

	Max Pressure Reading	Min Flow (m3/hr)*	Max Flow (m3/hr)	Pipe fitting**	Accuracy***	Single Unit Price **** (Ex Works, shipped from India)	Compatibility
Standard 10 - Low Pressure Range	ndard 10 - Low Pressure Range						
SB Standard 10 - Flow 2	10 kPa	0.07	2.10	3/4" - 1/2"	±5%	\$105.00	For use with cleaned gas and less harsh environments with
SB Standard 10 - Flow 4	10 kPa	0.10	4.20	3/4" - 1/2"	±5%	\$125.00	
SB Standard 10 - Flow 11	10 kPa	0.27	11.17	7" - 7"	±5%	\$165.00	
SB Standard 10 - Flow 22	10 kPa	0.53	22.30	1" - 1"	±5%	\$220.00	
Standard 50 - Mid Pressure Range	60 - Mid Pressure Range						
SB Standard 50 - Flow 2	50 kPa	0.07	2.10	3/4" - 1/2"	±5%	\$125.00	and accuracy requirements.
SB Standard 50 - Flow 4	50 kPa	0.10	4.20	3/4" - 1/2"	±5%	\$145.00	
SB Standard 50 - Flow 11	50 kPa	0.27	11.17	1" - 1"	±5%	\$185.00	
SB Standard 50 - Flow 22	50 kPa	0.53	22.30	1" - 1"	±5%	\$240.00	

^{*} Min flow refers to the smallest amount of flow that can be detected by the Smart Biogas Meter

^{**} All pipe fittings have British Standard Pipe (BSP) - tapered ends

^{***} Average range as tested to ISO-5167

^{****} All prices include an AC-DC power adapter and 2G communications, upgrades to solar power and 4G cost extra (see page 8).

Each unit requires a SIM card for data transfer, we can provide Global SIM cards (see page 8).

Specifications

Smart Biogas - Raw range (coming soon)

	Max Pressure Reading	Min Flow (m3/hr)*	Max Flow (m3/hr)	Pipe fitting**	Accuracy ***	Single Unit Price (Ex Works, shipped from India)	Compatibility
Raw 10 - Low Pressure Range							
SB Raw 10 - Flow 13	10 kPa	0.32	13.34	3/4" - 1/2"	±7%	\$115.00	
SB Raw 10 - Flow 24	10 kPa	0.56	24.00	1" - 1"	±7%	\$210.00	
SB Raw 10 - Flow 62	10 kPa	1.53	62.16	1" - 1"	±7%	\$330.00	
Raw 50 - Mid-Pressure Range	aw 50 - Mid-Pressure Range						For raw biogas
SB Raw 50 - Flow 13	50 kPa	0.32	13.34	3/4" - 1/2"	±7%	\$135.00	monitoring, with slightly lower sensitivity but more robustness.
SB Raw 50 - Flow 24	50 kPa	0.56	24.00	1" - 1"	±7%	\$230.00	
SB Raw 50 - Flow 62	50 kPa	1.53	62.16	1" - 1"	±7%	\$350.00	
Raw 500 - High-Pressure Range							
SB Raw 500 - Flow 13	500 kPa	0.32	13.34	3/4" - 1/2"	±7%	\$155.00	
SB Raw 500 - Flow 24	500 kPa	0.56	24.00	7" - 7"	±7%	\$250.00	
SB Raw 500 - Flow 62	500 kPa	1.53	62.16	1" - 1"	±7%	\$370.00	

^{*} Min flow refers to the smallest amount of flow that can be detected by the Smart Biogas Meter

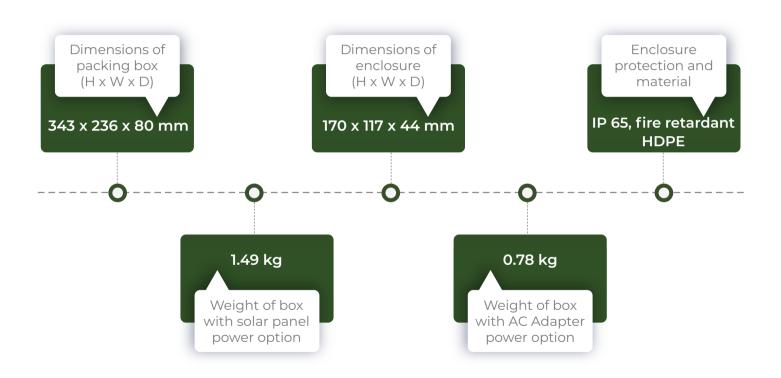
^{**} All pipe fittings have British Standard Pipe (BSP) - tapered ends

^{***} Average range as tested to ISO-5167

^{****} All prices include an AC-DC power adapter and 2G communications, upgrades to solar power and 4G cost extra (see page 8).

Each unit requires a SIM card for data transfer, we can provide Global SIM cards (see page 8).

Package and Enclosure



Communications*

2G (included)

- SIMCom SIM800C
- Quad-band GPRS

- SIMCom A7672S-FASE
- LTE Cat-1 + EDGE + GPRS
- BLE
- GNSS

Additional Features

- 3 days battery life without power
- AC plug adapter (included) OR 6W solar panel (+\$3)
- OLED display (included) OR LED indicators (-\$2 cost saving option)
- External RJ45 socket for diagnostics

^{*} Global SIM card can be provided (+\$1.50), annual data costs vary depending on location.

Smart Biogas

Web Platform

The Smart Biogas software platform works seamlessly across web and mobile. It allows providers of biogas digesters to easily track the real-time performance of all installed systems, facilitate payments, and manage repair and maintenance operations with technicians.

Our versatile user interface allows different categories of users to access specific parts of the Smart Biogas service.







Get In Touch

+44 749 317 4489

www.inclusive.energy

INDIA
 No.1145, Fourth Floor,
 22nd Cross, Club Road, HSR Layout
 Bengaluru, 560102, India

UK

Edinburgh: 12 South Charlotte Street, Edinburgh, EH2 4AX

London: J406, The Biscuit Factory, Drummond Road, London, SE16 4DG

InclusiveEnergy

