

Emily

Residual methane measurement for post-digested sludge

Technical datasheet



On-site quantification of residual methane.

Bluemethane Emily is a modular, standalone system developed to quantify residual methane in wastewater and sludge streams, with primary application in anaerobic digestion processes. It is designed for on-site deployment and continuous operation, extracting and measuring methane under defined conditions.

How the measurement cycle works

1

Control

Fresh sludge samples are handled identically every cycle.

2

Measure

Methane is measured from the sample under defined conditions, giving repeatable results.

3

Wash & purge

Integrated washing and purging remove residual methane and sludge, resetting the unit for the next cycle.

Measured data, not estimates.

Methane, under control.

bluemethane.com

Emily specifications

Emily runs a batch sampling cycle, provides industrial signal outputs and operates from a standard single-phase supply.

MEASUREMENT

Measurement accuracy	±10%
Sample time	Approx. 15 minutes
Total dry solids	Up to 9%

PROCESS CONNECTIONS

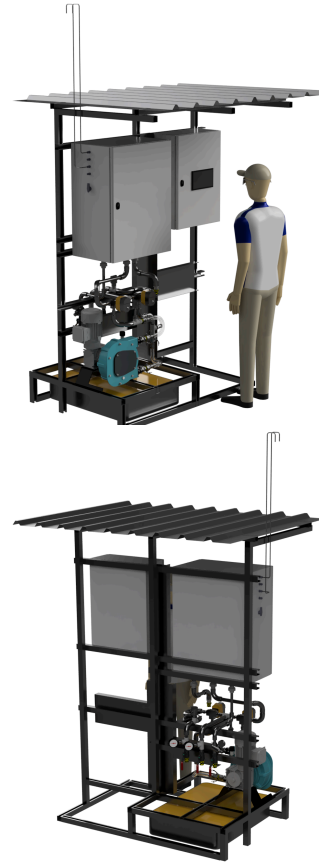
Max. inlet pressure	2 bar
Max. outlet pressure	2 bar
Water consumption	12 L/h
Sludge & water lines	3/4" hose

ELECTRICAL & DATA

Power	220 VAC, 50 Hz, 1-phase, 400 W rated
Outputs	4–20 mA · Modbus TCP USB data collection Cloud telemetry (optional)

PHYSICAL

Protection	Designed to meet IP54
Weight	c. 100 kg



Emily unit, front (top) and back (bottom) views. Figure shown for scale.

Installation requirements

- **Power:** standard UK single-phase connection, 400 W rated.
- **Ground:** solid, level ground when the unit is placed on the ground.
- **Outlets:** outlet ports must be located in a safe area.
- **Water:** continuous supply required; need not be potable (final effluent is fine).
- **Connections:** sludge and water lines via 3/4" hose.

Part of the Bluemethane family

Emily measures methane **Chloe** captures it **Brutus** prevents it

Technical enquiries

For site integration, data interfaces or deployment planning, contact
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