

Biogas Lab Factsheet on Innovative renewable gas technologies



Groundbreaking in situ instruments for measuring the composition of biogas and off-gas in the biogas and biomethane plants

About the technology

The Vaisala MGP260 series of multigas instruments are the world's first optical in situ measurement devices measuring multiple gases directly in demanding biogas process conditions where repeatable, stable, and accurate measurements are essential.



The Vaisala MGP260 multigas instruments measure biogas on a wet basis without a need for sampling lines, pumps or moisture removal traps.

Benefits for the biogas sector

The Vaisala MGP261 measures methane, carbon dioxide and humidity in the raw biogas helping the biogas plants improve process control and plant profitability.

By measuring methane continuously, the biogas plants can get more value from waste, ensure correct methane volume calculation and maximize electricity and heat generation. By measuring humidity, the biogas plants can prevent the engine from wear and shutdowns and prolong the refill interval of the activated carbon filters.

The Vaisala MGP262 measures methane and carbon dioxide in the off-gas helping the biogas upgrading plants improve greenhouse emission and process control. With the Vaisala MGP262, the plants can optimize the upgrading process for maximizing the biomethane yield and minimizing the process energy consumption and the environmentally harmful methane slip to off-gas.