

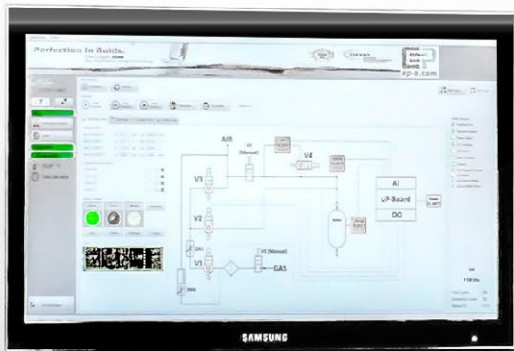
Perfection in fluids.

The right *flow*
by German engineering.



GasPro - Mobile gas sampler

Brochure EPE-169500



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EPE-169500

GasPro - Mobile gas sampler



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Similar to figure

Representative cyclical gas sampling to determine gas quality in the gas network

Easy and flexible gas sampling
Less expensive than stationary analyzers
ATEX compliant and PTB approved

Description

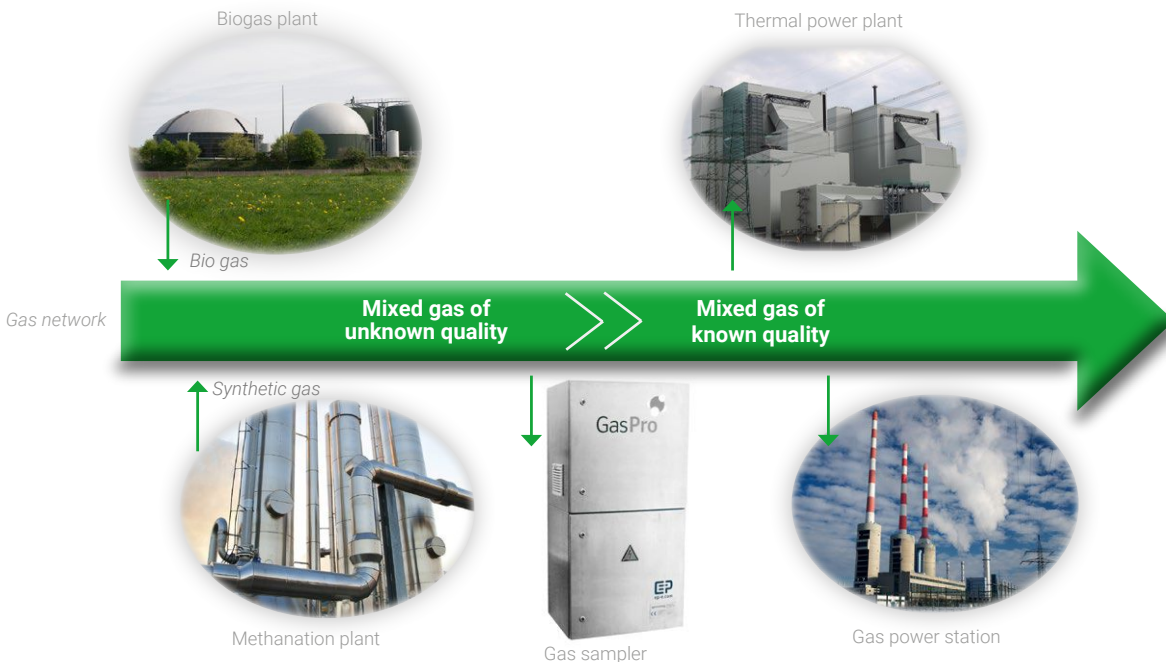
GasPro is a mobile gas samples collector for easy and flexible cyclical gas sampling at practically any grid location. Samples are collected in a gas cylinder in the GasPro and are subsequently analysed in a laboratory.

GasPro enables the separation of gas sample collection and gas sample analysis and represents a cost-efficient and highly flexible alternative to permanent gas chromatography installations.

Analysis of gas quality in the grid is essential to monitor technical specifications and to ensure correct billing.

Features & Benefits

- ✓ Simple and user-friendly commissioning and use
- ✓ Mobile and flexible use of GasPro via optionally independent battery power supply
- ✓ Can be deployed outside
- ✓ Sampling period can be adjusted to customer application
- ✓ Versatile applications
- ✓ ATEX conformity and PTB approval
- ✓ Error limit calorific value HS = 0.112 kWh/m³



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System description

GasPro gas sample collector consists of two functional- and housing parts. The gas-leading components are in the upper element, which is ATEX compatible (Ex area). The controls with optionally independent battery power supply are found underneath.

A predetermined sample quantity is removed from the pipeline. Those samples do all have the same mass or nominal volume. The gas mixtures collected is therefore not only a snap-shot of the gas quality but represents the average gas quality in the pipeline over the sampling period.

A typical sample collection is done over a period of 4 days with a cycle time of 15 minutes. Sampling periods and cycle times could be configured individually.

After the sampling period the sample cylinder is removed from the GasPro and the gas composition of the sample is analysed in a laboratory e.g. via gas chromatography. With the knowledge of gas composition relevant gas parameters like the calorific value, density and the Wobbe Index can be calculated.



GasPro is approved by PTB (Physikalisch Technische Bundesanstalt, Germany) for use in gas parameter custody transfer assessment, e.g. for validation of gas quality tracking systems. Due to the optimized gas sampling process with the GasPro the error limit of calorific value is $HS = 0.112 \text{ kWh/m}^3$ (including analysis).

Applications

Natural gas quality:

Assessment of natural gas quality with respect to corresponding regulations (e.g. DVGW) e.g. at network interconnection points and in supply areas with feed-in involving differing gas qualities.

SmartSim validation:

Validation of gas quality tracking systems (SmartSim) – comparison of simulated gas parameters with actual analysis values via GasPro samples.

Biogas quality:

Determination of gas parameters at biogas plants.

Hydrogen quality:

Determination of hydrogen purity and hydrogen concentration at power to gas plants.

Process gas quality:

Determination of different process gas qualities (available process gases on request).

System description



Interior GasPro

Above: Gas components (Ex area)

Below: Control technology & battery supply

Applications



Approved by PTB



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Technical specifications & ordering information

Technical specifications

Permitted gas cylinder pressure:	4...8 bar abs.
Inlet pressure at GasPro:	4.5...8.5 bar bar gauge (1.5 bar higher than the selected gas cylinder pressure) <i>Note: The required pressure regulator is not included in the scope of delivery, but available as option.</i>
Max. operating pressure:	16 bar
Temperature range:	-20...+50 °C
Power supply voltage:	230 VAC / optional 24 VDC
Sample cylinder volume:	500 ml
Error limit calorific value H_s : (including the analysis)	0.112 kWh/m ³
Dimensions (H x W x D):	1200 x 600 x 350 mm
Weight:	approx. 80 kg



On-site service as customer support

Ordering information

Item no.	Designation
121386	GasPro - Mobile gas sampler
169159	Battery pack for GasPro
169531	Additional sample cylinder for GasPro
169532	Pressure regulator for GasPro



You have a low need for sample analysis? We also offer gas sampling as a service. We install our GasPro at the sampling location you require, supervise the sampling and send you an analysis report (calorific value, standard density, substance amount fraction methane and nitrogen). Ask for your non-binding offer and present us your requirements!

We are partners!



SmartSim

better than measured

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