

Natural Gas Sampling System NGSS 3000

NATURAL GAS SYSTEMS

The Natural Gas Sampling System 3000 is designated to take a sample stream from a pressurized natural gas source.

APPLICATIONS

- Natural gas exploitation
- Natural gas processing plants
- Natural gas platforms



For measuring mercury in natural gas the pressure of a high pressure sample feed has to be reduced to a suitable low pressure before measurement.

The new Natural Gas Sampling System 3000 follows a straight forward design.

It integrates a minimum of components. All gas wetted parts in the sample path have been silica coated. This allows very fast conditioning and low memory effects.

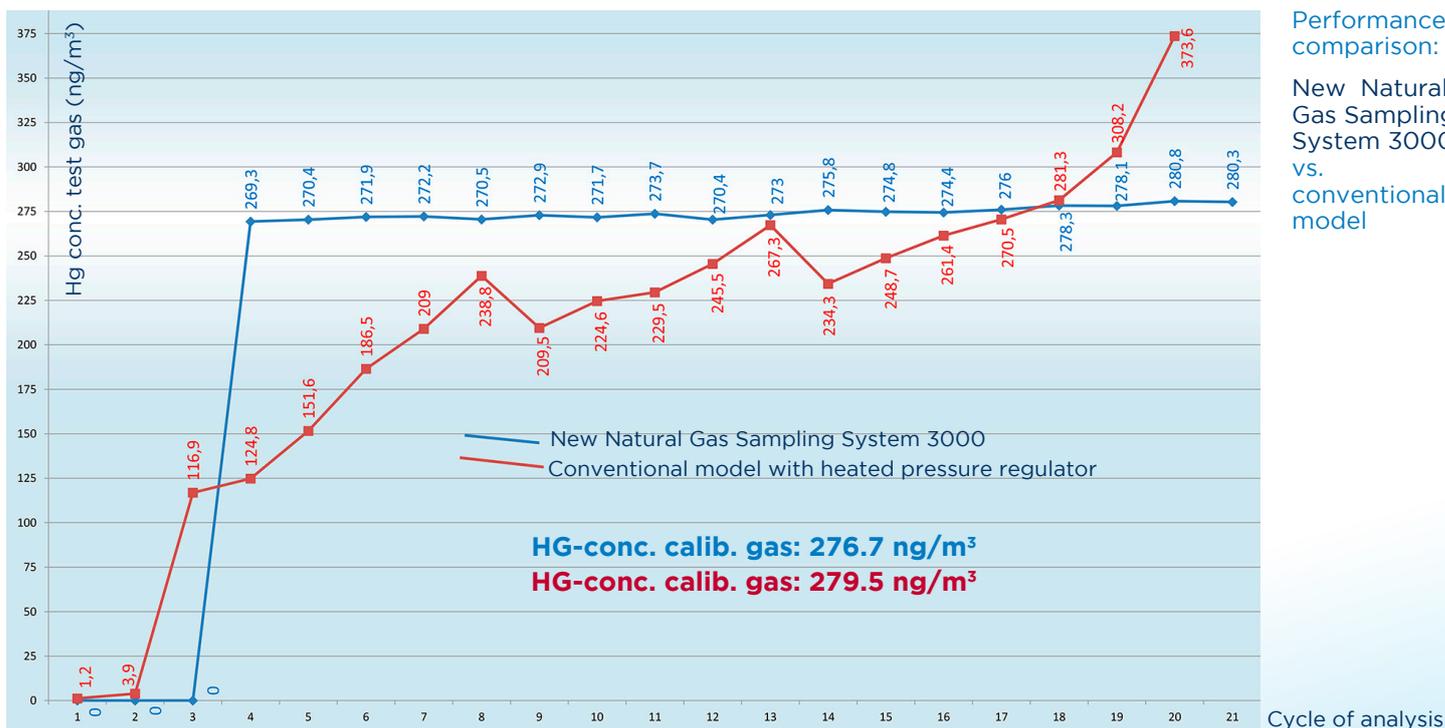
The outlet of the sampling system can be connected directly to an analyzer (UT-3000) or the gas can be fed into a special sample bag (Tedlar® bag) and carried to the analyzer.



SPECIFIC FEATURES

The new Natural Gas Sampling System 3000 (NGSS 3000) shows a considerable performance improvement compared to conventional models with integrated heated pressure regulator.

- The NGSS 3000 signal rises from start of measurement within a single measuring cycle (= 3 min) to more than 90% of the final concentration, whereas conventional models need 10 cycles more.
- The readings using the new NGSS 3000 are clearly more stable than the readings of conventional models.
- The readings using the new NGSS 3000 are constant over a wide pressure range of the feed gas and pressure settings are kept much more stable.
- In contrast to conventional models, the readings obtained with the new NG Sampling System 3000 are insensitive to parameters not set precisely.
- The improved design of the Natural Gas Sampling System 3000 allows easier maintenance in case of contamination with liquid hydrocarbons.



Cycle of analysis

TECHNICAL SPECIFICATIONS

| | |
|---|--|
| Particle filter: | 1 micron stainless steel T-Filter |
| Max. sample inlet pressure: | approx. 200 bar |
| Pressure P1: (secondary side of pressure regulator): | 0.0 - 1.0 bar (0.28 bar typically) |
| Flow 1 and Flow 2: | 0 ... 5 l/min |
| Materials used: | <ul style="list-style-type: none"> • Stainless steel (partially coated) • Viton • Ismaprene |
| Power supply: | <ul style="list-style-type: none"> • 230 V AC / 50Hz; • 110 V AC / 60 Hz |
| Power consumption: | 175 VA |
| Dimensions (W x H x D): | 45 x 23 x 35 cm |
| Weight: | apprpx. 10 kg |

Product developed and manufactured in Germany by:

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