



We measure gases.

Press Release

Gas analysis in natural gas and biogas plants

Karlsruhe, January 27, 2015:

INCA is a modular device platform for multi-component gas analysis with a particular focus in the biogas and natural gas industries. Similar to a modular construction system, blocks for active gas sampling, gas processing as well as sensors, controller, data processing and communication are combined to form robust and reliable analysis systems.

The standardized modules enable a variety of customized solutions for specific analysis tasks and combine optimal analysis results with a favorable cost position. The user benefits from the convenience of the modular system. For example, individual components can be replaced directly in the field.

When equipped accordingly, INCA enables sequential switchover of the measuring technology to different sample gas streams from up to 10 measuring points, e.g., for sampling from multiple fermenters in biogas plants.

A variety of sensors with different measuring ranges are available for the devices. These include NDIR sensors (for CH₄, CO₂, C₂₊), electrochemical sensors (for O₂, H₂S, and H₂), paramagnetic sensors (for O₂), and acoustic cells (for specific density). Additionally, the Wobbe index and heating value can be output as calculated values.

The sensors are developed and produced in house by Union Instruments GmbH, thereby assuring maximum quality and measuring accuracy. Customized enhancements are also available on this basis.

UNION Instruments at E-world 2015: Hall 2, Booth 2-427

UNION Instruments at Achema 2015: Hall 11, Booth E 27

About UNION Instruments

UNION Instruments GmbH, founded in 1919, is a specialized supplier of measuring instruments in the areas of calorimetry, gas composition and pressure registration. Its user and customer base includes biogas producers, the chemical industry, and energy and water suppliers. The company has its headquarters in Karlsruhe, Germany and a subsidiary in Lübeck, Germany. With 20 international distributors, UNION Instruments operates worldwide (e.g., USA, China, Russia, Brazil, Belgium). The company's core businesses include production and development as well as maintenance, service, and support.

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The INCA1050 T301-01 analyzer is used especially for analyzing the methane content, Wobbe index, heating value, and specific density of natural gas.