

ONTRAS Gastransport GmbH

Client
ONTRAS Gastransport GmbH

Construction time
10/2015 - 05/2016

Order value net
400,000 €

Contractor
VORWERK-ASA GmbH

Own work
Detail Engineering, plant construction, Commissioning

Subcontractor services
Electrical assembly

Features
Installation of calibrated gas composition analysis in a 2.5t car trailer

Contact
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Mobile gas quality measurement

ONTRAS Gastransport GmbH operates a high-pressure network with a length of 7,000 km, 450 network interconnection points and 19 biogas injection plants. Various calibratable measuring points are operated to monitor the gas quality in the network, which also includes a corresponding gas quality measurement. In order to be able to react flexibly to the needs of the network, the construction of a car trailer with calibrated gas measurement technology was ordered. A PGC type Marquis SAM-COMPLETE-14K with two measuring stations and the necessary periphery was installed. In addition, a measurement for oxygen, hydrogen sulphide and the determination of the dew point for water and hydrocarbons are integrated. The PLC of the PGC functions as the intelligent heart of the system and the GAS-NET M1 from Elster as the data gateway. By integrating it into an elaborately structured network topology, it is possible to connect the measuring system to the remote control technology and to the local measuring system via data cables. Radio connections via DSfG-DFÜ are also possible.

The system can be operated in high-pressure networks up to 100bar or also in low-pressure applications, as the gas supply is equipped with both high--pressure reducers and a sample gas pump. All necessary connections are pre-planned for any location in the ONTRAS network, so that the system can be set up ready for operation anywhere in a short time.