GMCL1600 - Gas Meter Calibration Loop

Data Sheet EPE-147388
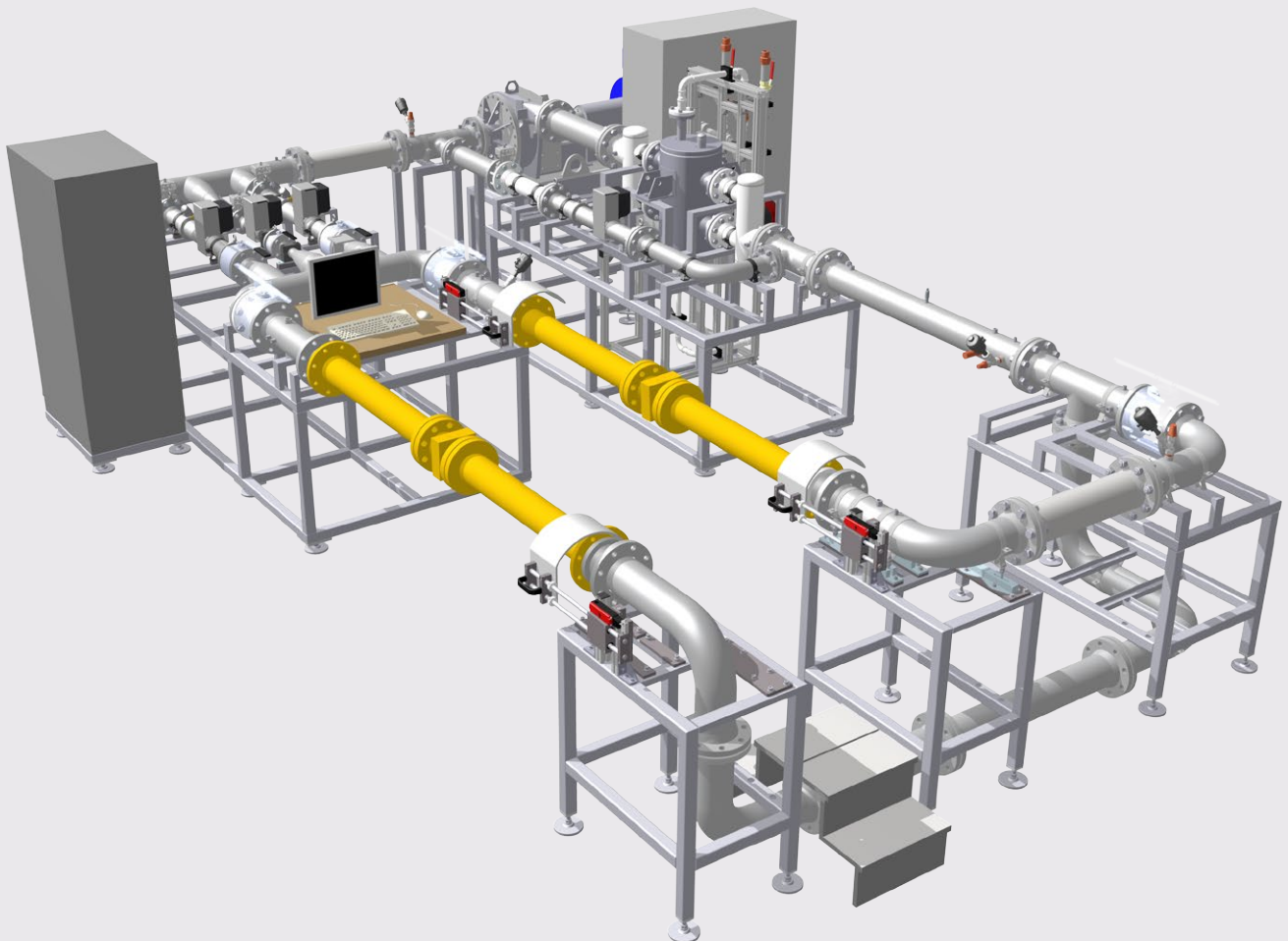
Made in
GERMANY

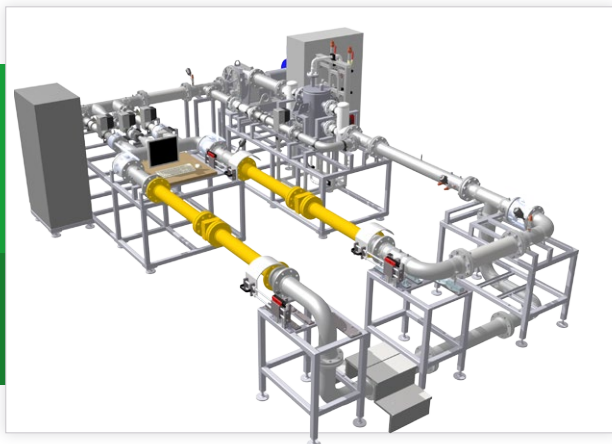# GMCL1600 - Gas Meter Calibration Loop

EPE-147388

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Calibration loop for gasmeters

Flow test bench up to 1600 m³/h in closed loop desgin
Test medium is pressurised air - alternative natural gas
Design pressure is 17 bar abs. - alternative 25 bar abs.

ⓘ Figure similar

Description

The system is designed for flow calibration of ultrasonic gas meters in different nominal widths or volume flow ranges. For energetic reasons, the system is designed as a closed media loop (closed loop).

The test system is filled to the required test pressure via the customer's compressed air network or via a compressor. A radial high-pressure fan generates the necessary volume flow and compensates for the pressure drop of the complete calibration system. The piping is in DN150 for a working volume flow up to 1600 m³/h and designed for pressure up to 26 bar abs. The test bench included 3 reference measuring sections, which are equipped according to customer requirements.

Test bench controlling, data acquisition incl. volume flow calculation as well as the pressure and volume flow control are performed via a PC with external data acquisition hardware and a measurement and control software under LabVIEW.

Technical Data

Be entered sizes

Operating volume flow	1..1600 m³/h
Control accuracy ±2% FS	
Testing air temperature	15..25°C
Control accuracy ± 2 K within A test sequence	
Test pressure Version A:	1..17 bar abs.
Test pressure Version B:	1..26 bar abs.
Control accuracy ±0.1 bar	

Measurement sizes

Relative humidity in front of references	0..100% r.H
Measurement accuracy ±3%	

Dimensions

Test bench (L x B x H)	7,2 x 6 x 2 m

Benefits

✓ Calibration of volume flow meters with overpressure

✓ High saving of energy due to the usage of a closed loop

✓ Operation with various gases

Special solutions
Application examples:

Gas and flow measurement:
Calibration of gas meters at different pressure levels

⚠ **This is only an _example_ interpretation and can change according to your needs.**

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