

Gas Analyzer VOS 08 T



RMG Meßtechnik GmbH

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Publication 3.562-E

Reliability in gas supply -
single-sourced across the board!

Gas Analyzer VOS 08 T

Applications

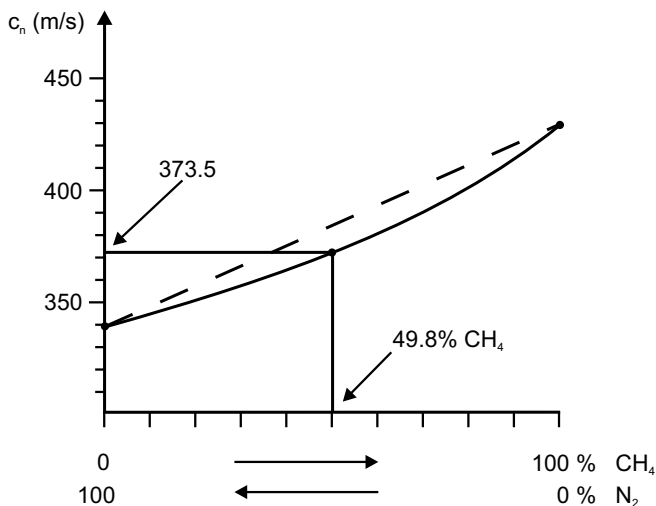
Measurement, monitoring and control of the quality and concentration of one component in a gas mixture
Monitoring of the preparation of gas mixtures
Controlling of processes
Quality monitoring, etc.

Analysis of **binary** gas mixtures

Volume contents
Mass fractions
Mol contents
Molecular weight/standard density

General description

The VOS 08 T gas analyzer operates on the principle of the vortex pipe. The gas to be measured flows through the nozzle pipe at a high speed into the measuring chamber. At a facing edge vortices are produced which, in the measuring chamber serving as resonator, generate pressure pulses with a frequency directly proportional to the velocity of sound of the gas. Velocity-of-sound measurement allows **continuous gas analysis**, since it depends on the gas composition.



Sound characteristic

The velocity-of-sound curve is called sound characteristic - **acoustic gas analysis**. For further information about the function of the gas analyzer, please refer to the VOS 07 publication No. 3-561-E.

Specifications

Measuring range:	150 to 1500 m/s
Measuring error:	± 0.2% of the measured value
Dimensions:	W x H = 362 mm x 562 mm
Inlet pressure:	> 2.5 bar
Ambient temperature:	- 10°C to +50°C
Gas consumption:	approx. 100 sl/h
Power supply via an intrinsically safe supply unit:	24 V DC
Measuring output:	4 to 20 mA 2-wire technology

Description of the transmitter

The transmitter serves to process signals and has a two-line display with 8 digits each. Each line is divided into two fields. The first field indicates the channel number (one digit), while the second field shows the measured values and constants. The top line serves to display physical values and constants, whereas the bottom line always shows the output current. The transmitter is operated via four function keys.

Service interface

The transmitter is fitted with a V24 interface for servicing. Parameterization, checking and error diagnosis can be carried out quickly and easily using a stationary or portable PC.

The gas analyzer can be installed in a weatherproof cabinet for outdoor installation.

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Subject to technical changes