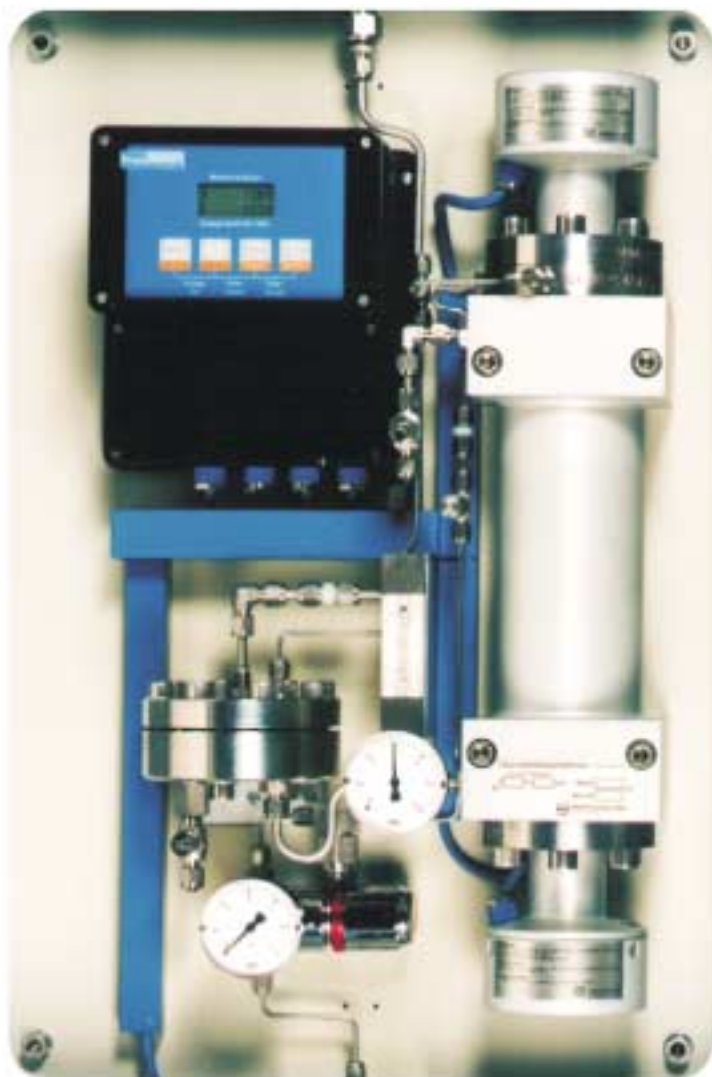


# Gas Density Transmitter NDG 08 T



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Publication 3.532-E

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

# Gas Density Transmitter

## NDG 08 T

### Applications

Measurement, monitoring, detection and control of the concentration of one component in a gas mixture

- Monitoring of the preparation of gas mixtures
- Measuring of the standard density of gases
- Controlling of processes
- Quality monitoring, etc.

Analysis of **binary** gas mixtures

- Volume contents
- Mass fractions
- Mol contents
- Molecular weight/standard density

### General description

The NDG 08 T gas density transmitter serves to determine the density of a gas at standard conditions. The measuring sensor for density used is a tuning fork whose natural frequency is determined by the density of the measuring gas surrounding it. The gas density transmitter has two tuning forks installed in separate measuring chambers. One of these chambers is filled with a reference gas similar to the measuring gas, whereas the measuring gas continuously flows through the second chamber. The standard density is determined by comparison. For further information about the function of the gas density transmitter, please refer to the NDG 08 publication No. 3.531-E.

### 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.

### Specifications

Measuring range:	0.4 to 3.5 kg/m <sup>3</sup>
Span:	no limitation
Measuring error:	≤ 0.2%
Dimensions:	W x H = 422 x 652 mm
Operating pressure (reference chamber):	2 to 4 bar
Inlet pressure (measuring chamber):	3 to 10 bar
Operating temperature:	0 to +50°C
Gas consumption:	approx. 20 to 60 sl/h
Tuning fork frequency:	approx. 1000 Hz
Power supply via an intrinsically safe supply unit:	24 V DC
Measuring output:	4 to 20 mA 2-wire technology

### 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 density transmitter can be installed in a weatherproof cabinet for outdoor installation.

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Subject to technical changes