

# FILLCOM 250



*Load Station for Air  
Gas, CO<sub>2</sub> and N<sub>2</sub>O*

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# FILLCOM 250 for Stationary Applications

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When filling tanker vehicles with air gas, CO<sub>2</sub> or N<sub>2</sub>O, exact measurement of the loaded quantities is essential, as these vessels either have insufficient or no displays of contents.

In avoiding the fill corrections which are necessary with inaccurate fill systems, the FILLCOM system saves a lot of time and money.

Another advantage of the FILLCOM system is the possibility to automate the load procedures around the clock.

The approved design of the flow processor guarantees simple utilization as well as safety of operation.

## *Various Media*

Designed for air gas (LIN, LOX, LAR) and CO<sub>2</sub>/N<sub>2</sub>O. Further media on request.

## *Long-Term-Stability*

Metering section without moving parts, thus no maintenance needed.

## *High Accuracy*

Due to the maintenance-free metering section without moving parts and the principle of differential pressure measurement, the FLOWCOM's calibrated accuracy shows, in contrast to other measurement principles no negative drift.

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## Technical Data

- 8-Bit Microprocessor
- 12-Bit A/D-Converter
- 32K-Write/Read-Memory
- 3 Analog Inputs
- 4-20 mA 2-Conducts
- 1 PT100-Input
- 1 RS232C
- Backlighted Graphic-LCD-Display
- Alimentation: 24VDC  $\pm$  10%
- Standard Software included

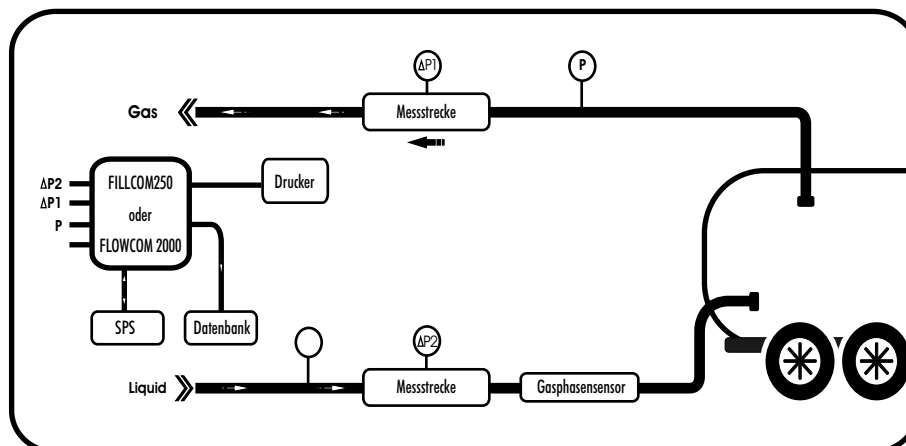
## Options

- Customer Specific Software
- 220 Volt Alimentation
- Ticket Printer



## Flexibility

- Interfaces for Communication with Host-Systems, Scales and Card-Readers



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# The Components

The system's components are proven reliable by operation since many years. Together with the Flowcom S8, for instance, there are more than 2000 applications, which use these parts.

## 1. The metering section

The metering section is the nucleus of the system. It operates on the basis of effective pressure measurement, i.e. the quantity of media flowing is calculated from the pressure drop across an orifice restrictor in the line. The metering section features no moving parts, and thus is maintenance-free. Installation into the pipe line may be done by welding, with flanges or brass screws.

## 2. Ticket-Printer

The world's smallest record-printer prints 42 characters per line on paper formats varying from 80x80 mm up to 182x257 mm. The TM-295 produces duplicates along with the original and its graphics capability is unmatched in this class. The printer can work with various fonts in 3

sizes. For rough everyday-handling the printer is optionally available with a IP65 stainless steel enclosure.

## 3. Temperature sensor

In order to accomplish the Fillcom 250's high accuracy and homologability, it is necessary to include the medium's density into the calculation. The temperature sensor, which is installed upstream of the metering section, provides the medium's temperature, which the processor converts into density. The used temperature sensor, type PT100, is a resistant platinum sensor which operates on the basis of the 4-conductor principle.

## 4. DP Transmitter

In order to measure the differential pressure the reliable transmitter, type ROSEMOUNT 1151 DP5 SMART, is installed to the metering section. The transmitter provides a 4 ... 20 mA output signal, from which the electronic processor calculates the flow rate. Oxygen applications are provided with a special model.



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# Flow Meter Systems for mobil Applications

## 1. FLOWCOM LC

The low-cost version processor *FLOWCOM LC* works without temperature compensation and is a good choice for flowmetering systems when the density of the measured medium is relatively constant.

## 2. FLOWCOM S8

*Flowcom S8* offers features such as controlling solenoids for discharge recirculation as well as a pump interlock

and vapor return. This processor is type approved in many countries and is installed in hundreds of tanker vehicles.

## 3. FLOWCOM 2000

The FLOWCOM 2000, featuring a large LCD display and 4 multi-function buttons, offers unmatched usability. The FLOWCOM 2000's soft- and hardware is designed to allow expansions for countless customer specific applications.



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