

Products for the Gas Industry

Flow Meter Systems for Cryogenic Liquids

FLOWCOM 2000

The FLOWCOM 2000, features a large LCD and four multi-function push buttons which guides the user through all menus and functions.

The FLOWCOM 2000's software and hardware is designed to allow expansions for countless customer specific applications.



FILLCOM250

This system was especially designed for stationary applications like load stations for tanker vehicles. The LC Display offers all information needed during operation. The many in- and outputs of the system allow several valves to be controlled by the processor, while our large software library enables a broad variety of applications to be served.



FLOWCOM S8

This processor has official approvals in many countries and is installed in hundreds of tanker vehicles.

Even in the standard version, the FLOWCOM S8 features the possibility to control valves, motor shut-off or similar.

Flowcom S8 offers features such as controlling solenoids and provides a pump interlock.



FLOWCOM LC

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



Various Media

Designed for air gas (LIN, LOX, LAR), Liquid air, CO₂/N₂O and C₂H₄/CH₄. 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 method of differential pressure measurement, the FLOWCOM's calibrated accuracy does not suffer from a negative drift inherent to many other measurement principles.

Approvals in many Countries

FLOWCOM S8: Germany, Austria, England, Poland, Denmark, Czech Rep., California (USA), Netherlands, Italy, further approvals on request

FLOWCOM 2000: Germany, Austria, others in preparation

FLOWCOM LC: California (USA).

Components

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 totally maintenance-free.

Temperature Sensor*

The used temperature sensor, type PT100, is a resistance platinum sensor which operates on the basis of the 4-conductor principle.



*not with FLOWCOM LC

Dp-Transmitter

In order to measure the differential pressure the reliable 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.



Ticket Printer

The TM295 is capable of printing 42 characters per line on paper formats varying from 80x80 mm up to 182x257 mm. It 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.



Products for the Gas Industry

Turn-Key-Systems

Pump Modules and CO₂-Semi-Trailers

In cooperation between various manufacturers of transport vehicles and FLOW as specialists in instrumentation and piping systems, turnkey delivery of complete CO₂- transport vehicles has become a reality.



These vehicles can be utilized immediately after they leave our plant.

All the approval and verification by TÜV and the Weights & Measures

Dept. are completed at our facilities in Solingen

prior to the delivery. Lead times are further reduced by dividing the manufacture of tanks/vehicle and the pump/instrumentation system between the facilities of the manufacturer of the vehicle and



FLOW, respectively. Availability of several different pump modules, tailored to customer specific requirements is featured.

Available sizes of the trailers, tankers and swap-bodys reach from 999 to 25.000 kg.

The photos on this page show some of our recently realized projects.



Service: Calibration of flow measuring system

Verifications

With our mobile, approved verification-unit FLOWMASS for LIN, LOX, LAR, CO₂, N₂O verifications can be made on-site very cost-efficiently.



Best Price-Performance Ration

- Minimum test quantities (LIN/LOX/LAR/CO₂/N₂O)
- Minimum out-of-service time for the tankers/trailers
- No travel costs for tankers/trailer

High Accuracy

- High-resolution measuring system
- Computerized data processing
- Trained operating personnel