



Odourisation of natural gas, liquified gas & industrial gases

Petrochemicals



www keywords:

- Natural gas
- Liquified gas
- Biogas
- Industrial gases (gas composites)
- Oxygen, nitrogen and others

Approvals:

- ATEX 94/9/EG
- GOST - R (für Russland)
- DKD DIN EN ISO/IEC 17025:2005
- DIN EN ISO 9001-2000
- CE
- CSA / UL

Your Contact Person

Technical Data

Media:	Thioether (tetrahydrothiophen THT, dimethylthylsufid DMS) Thiol /mercaptan, mercaptan-composites, acrylat-composites (Gasodor®, S-Free®)
Temperature:	-60°C up to +150°C (-76°F up to 302°F)
Pressure:	1 up to 4 bar, 12 up to 16 bar; 87 bar (up to 100 bar)
Measuring Range:	0.005 up to 0.25 l/min; 0.3 up to 15 l/h

Application

The odourisation of natural gas and other combustible gases is an important safety measure for the gas consumer during the inside gas installation. In order to discover leaks or defective devices quickly gas companies or public utilities add „safening agents“ to the by nature odourless natural gas.

In the majority of cases volatile sulphur dioxide or mercaptancomposites are used. Thus the escape of gas is noticeable for people. Then corresponding safety measures can be taken. For some time sulfur-free odorants under the trade name Gasodor®, S-Free® are on the market.

Solution

In ratio to the amount of gas the added agents are very low and are subject to strong periodic and seasonal variations (oscillations). The function of the Micro Flow Meter LFM 10 is based on dual ring plunger pendulum and is perfect for this application. Due to the low pendulum mass and the smallest frictional loss the LFM reacts even to the lowest volume flows.

Furthermore the principle of a plunger minimizes the leakage loss and guarantees a good linearity and repeatability. Owing to a high resolution the LFM in the odourisation pipe is ideal to control the function of the pump. It works highly reliable, is maintenance-free and also convinces with its small installation dimensions. Due to the use of premium materials the device is corrosion resistant against the conveyed chemicals.

Advantages

- + Very low flow rates
- + High resolution and measuring dynamic
- + Short response times
- + Compact design, premium materials
- + Extremely reliable, maintenance-free



Mikro-Durchflussmesser LFM