



Application Spotlight

Odorization

EVEN THE SMALLEST QUANTITIES OF VOLATILE ODORANTS ARE DOSED VERY PRECISELY

Technical Data

Medium:	THT, TBM
Temperature:	-40 °C up to +50 °C [-40 °F up to +122 °F]
Pressure:	50 bar [725 psi]
Measuring range:	0 l/h up to 40 l/h
Viscosity at 20 °C:	< 1 mPa.s
Density at 20 °C:	ca. 1,000 kg/m ³

Application

Natural gas, LPG and other fuel gases are odorless but potentially dangerous. Large quantities of gas arrive in gas distribution networks and are then distributed to different subnetworks and in different directions. A gas pressure control and measuring system ensures compliance with prescribed safety regulations and a smooth process flow. Any unintentional gas leakage must be detected immediately. For this purpose, the gas is usually odorized as an important safety measure. With the aid of highly evaporative, typically smelling organic sulfur compounds, primarily tetrahydrothiophene (THT) or tert-butylmercaptan (TBM), safety risks and accidents can be avoided and gas leaks diagnosed in good time.

Solution

Our ZHM MK series Gear Flow Meters have a special design that allows the measurement of low-viscosity, gaseous odorants. They meet the accuracy requirements of the smallest dosing quantities and cycles. Thus, manufacturers of gas pressure control and measuring systems can specify their odorization systems with an accuracy better than $\pm 1.0\%$.

Advantages

- Fast response times
- High signal resolution
- Precise dosing accuracy
- Corrosion resistant materials
- Space-saving design



Certificates:

- Pressure Equipment Directive 97/23/EC, 2014/68/EU
- HPO - Certification
- Explosion protection according to 2014/34/EU
- CSA/UL - Certification
- Accreditation according to ISO 17025



KEM Gear Flow Meter
(ZHM MK Series)