

ODORIZATIION SYSTEM

for BIOMETHANE and BIONGV

OdoZEN® (Low-Flow Serie)

OdoZEN®- LF is a patented natural gas odorization system.

It is particularly suited for use with renewable gases such as biomethane.

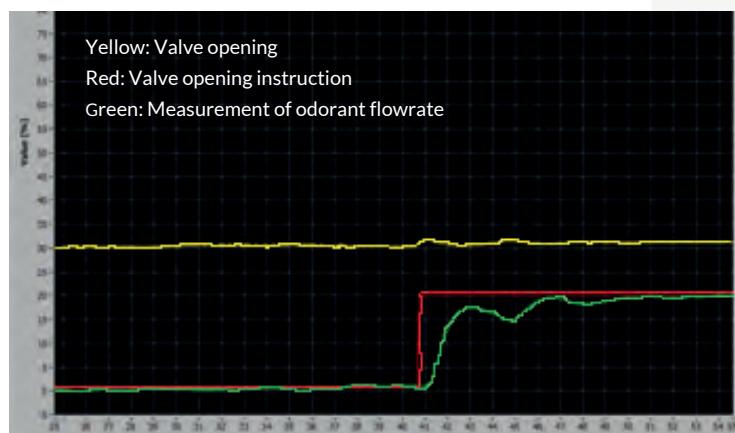
It allows to odorise **very low gas flows**, from **5Nm3/h**.

A highly accurate system **able to react** to any sudden changes in pressure and flowrate, and able to dose over a **wide range of concentrations**.



Features

- Odorant injection regulating valve controlled via mass flowrate measurement.
- Automatic or manual operation via controller.
- Digital touchscreen interface.
- System-specific injection probe connected to the skid.
- Mercaptan injection by differential pressure.
- ATEX zone 1 or zone 2 compliant.



Injection, setpoint and regulation curves

Benefits

- Immediate response to variations in flowrate and/or pressure.
- Stable and accurate dosing of the injected odorant.
- Regulation can be coupled with a mercaptan analyser.
- No risk of puddling at injection point.
- Turnkey, self-contained and compact unit.
- Custom system on request.



3D drawing of odorization panel



- ① Mass flow meter
- ② Flow control valve
- ③ Cylinder of mercaptan reserve
- ④ Pressure transmitter
- ⑤ Junction box

Technical specifications

Operating ambient temperature	0 - 45 °C
Injection maximum pressure	15 barg
Flow of gas to be odorized	5 - 200 Nm ³ /h
Odorant concentration setting	25mg/Nm ³ (Other configurable values)
Wetted materials	316 stainless steel
Sealing	Perfluorocarbon, Teflon and Viton
Power supply	230 volts AC single phase (Rated power = 2000W)
Communication protocol	Modbus Ethernet TCP/IP (communication module provided)
Input/Output	4-20 mA, TOR
Footprint (Approx.)	Panel: 1000 x 1000 x 200 mm Enclosure: 530 x 430 x 200 mm

Applications

BioNGV station	Grid injection
Wastewater treatment plant	Industrial boiler feed