

# ODORIZATION SYSTEM

for NATURAL GAS and BIOMETHANE

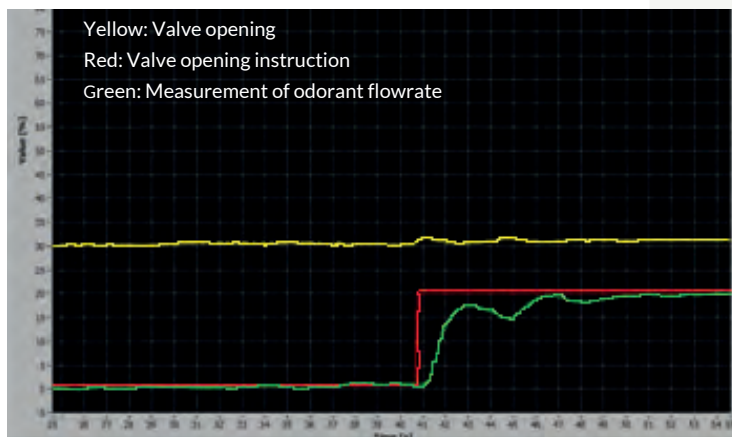
## OdoZEN®

OdoZEN® is a patented natural gas odorization system. It is particularly suited for use with renewable gases such as biomethane.

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.
- "Closed loop" odorant circulation.
- Stainless steel piston pump with Teflon double membrane.
- Automatic or manual operation via controller.
- Digital touchscreen interface.
- System-specific injection probe connected to the skid.
- ATEX zone 1 compliant.



 Injection, setpoint and regulation curves

## Benefits

- Immediate response to variations in flowrate and/or pressure.
- No under or over dosing of odorant.
- Steady and accurate control of the odorant injection.
- No risk of puddng at injection point.
- Turnkey, self-contained and compact unit.
- Mobile system available on request.

 3D drawing of the skid and injection probe assembly

- ① Mass flow meter
- ② Flow control valve
- ③ Pressure regulation stages
- ④ High pressure circulating pump
- ⑤ Injection probe



## Technical specifications

Operating ambient temperature	0 - 55°C
Injection maximum pressure	90 barg
Flow of gas to be odorized	5 - 8000 Nm <sup>3</sup> /h
Odorant concentration setting	25mg/Nm <sup>3</sup> (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	4-20mA, TOR
Footprint (Approx.)	2000 x 1200 x 600 mm

## Applications

Biomethane injection station

Start-up phase of a new installation or network extension.

Odorization correction (storage, reverse flow stations ...)