

Major Eastern Europe Gas Utility reduces annual ownership cost by 181 k€ using Emerson Smart Odorizing System

RESULTS

- Reduced yearly operational tasks by 5700 hours
- Increased safety and availability with 2.5 times less downtime
- Reduced energy loss by 10MW

APPLICATION

Natural gas odorization in city gate pressure reduction stations.

CUSTOMER

An Eastern European natural gas distribution company serving up to 1,6 million customers.

CHALLENGE

Odorant injection is one of the most important safety activities for natural gas distribution system operators. National energy authorities take odorization into consideration when performing service quality evaluations and poor odorization can have a significant impact on operational costs. The customer was using absorption and pump systems—traditional odorization technologies—which had several issues including unplanned downtime, uneven odorant distribution, and increased time spent in the field.

SOLUTION

The Dosaodor-D Smart Odorizing System with solenoid valve injection technology offers a better solution compared to pump or absorption systems. It is extremely easy to use, offering remote access and less maintenance compared to other technologies.

The Dosaodor-D system is much simpler with less parts and tubing compared to pump technology. This reduces the time allocated for periodical checks to only 1 hour as against almost 2 hours. By replacing the pump system with Emerson's injection system, the customer saved 2830€ per year in periodical check costs.



NATURAL GAS ODORIZATION

Emerson odorizing solution lowered annual operational costs by 3620€ per installation by reducing the number and duration of periodical checks and maintenance operations, while assuring a safe and accurate natural gas grid odorization.



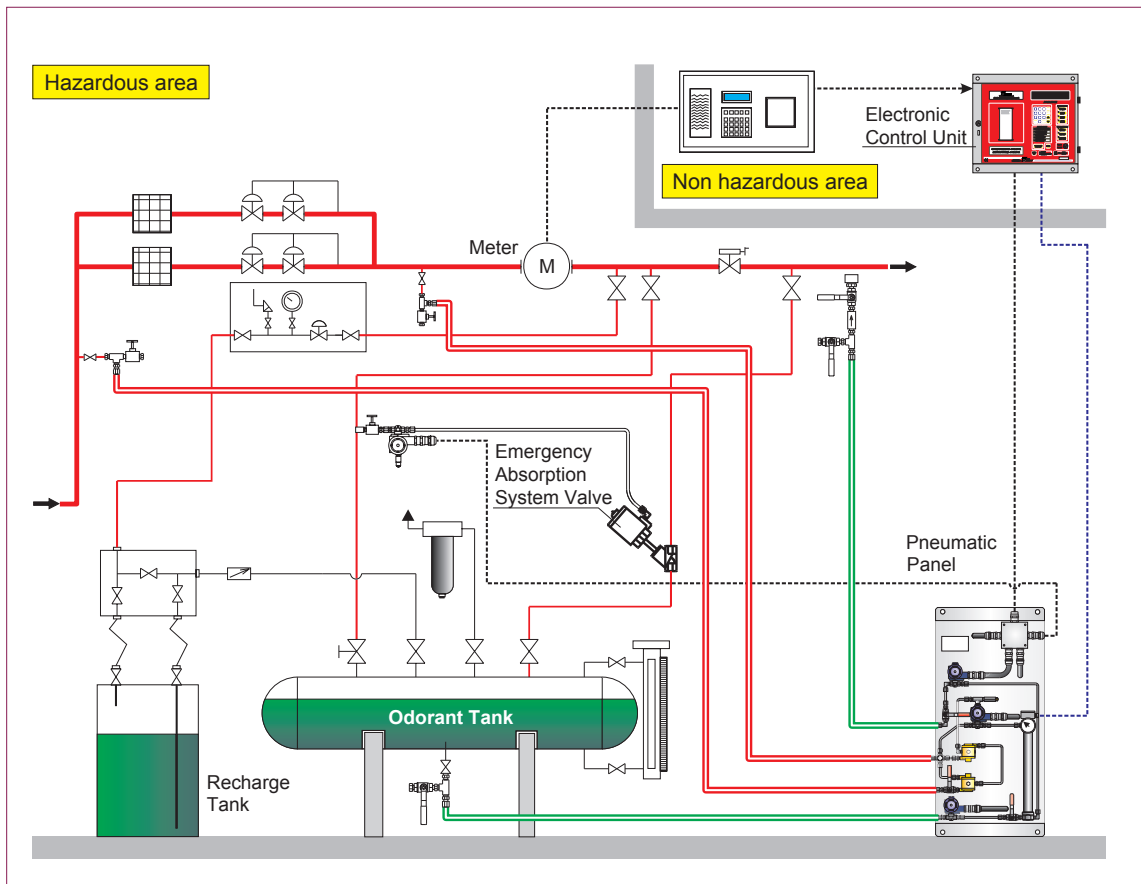
Type Dosaodor-D Pneumatic Panel

The solenoid injection valve, driven by a proprietary algorithm, provides the precise amount of odorizing liquid over low summer to high winter flow rates. This feature is particularly important as excess liquid results in nuisance alarm calls, whereas a lack of liquid can result in compromising safety in the case of a downstream natural gas leak.

The Dosaodor-D offers the most efficient solution, delivering superior performance while reducing annual energy consumption by 200kW per installation. Its proven reliability minimizes the risk of unexpected downtimes.

The accuracy and reliability of this odorization solution allowed the customer to improve its quality service level and reduce operating expenses (OPEX) by improving field technicians' time management.

Due to these strong advantages the customer selected the Emerson solution and replaced approximately 50 odorizing stations. Over the upcoming years they intend to extend their system network and install additional Dosaodor-D Smart Odorizing Systems.



Type Dosaodor-D Installation with Absorption Emergency Tank

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