ATEST GAZ
Reliable and Innovative Gas Detection & Safety Systems

BALTIC CONNECTOR

Paldiski and Puiatu gas compressor stations in Estonia

CASE STUDY

1.0 About the system

The Paldiski gas station is a fragment of the Baltic Connector project (Estonian gas transmission network extension by constructing a linkage with Finland via underwater gas pipeline). This project will play a major role in the energy strategies of both Finland and the EU . The second part is the Puiatu gas compressor station, which is located at the border with Latvia.
The both aforementioned gas stations are components of improvements in the gas transmission network from Poland to Finland.

2.0 Problems of the customer to be remedied

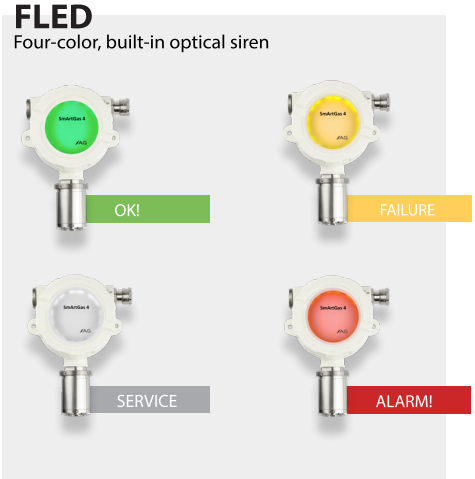
The Customer submitted the request to select the most suitable system for measurements of gas concentration of such gases as methane, oxygen, carbon monoxide and hydrogen. Due to sophisticated nature of the system and extensive size of the project, the Customer specified several key features that were crucial for the Customer's needs, i.e.:

- gas detector installed at hard accessible locations must offer the possibility of remote calibration,
- warning devices installed at the facilities must not only inform about possible gas leaks but also about failures of the gas detection system,
- the system to be deployed must enable reduction of expenses for cabling,
- the system must be highly reliable,
- the system must enable interconnection with the existing SCADA system.

3.0 Our solutions

Both stations have been equipped with the latest solutions from Atest Gaz offer:

- SmArtGas 4 Gas Detectors with Bluetooth link, with the FL.C gas head, enabling remote calibration with no need to switch the gas detector off or to approach it (which is beneficial for Ex areas). The FL.C measuring head features with reduced T90 time that makes it possible to get results of measurements in an extremely short time,
- LTT signallers connected via fully monitored RS485 line to provide reliable information both about hazardous situations and system fault-free operation (GASOK green light),
- MODBUS creator designed for galvanic separation of data bus lines (to improve the level of reliability),
- The possibility to use the MODBUS TCP output for an interconnection with the SCADA system.



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