

VIMS Vacuum Interstice Monitoring System

Intelligent monitoring allows appropriate reactions on leak alarms thus reducing profit losses

VIMS is the smart solution for leak detection and leak prevention for double walled pipes and tanks.

A leak in either of the walls will be detected before any product can enter the environment.

VIMS fulfils the highest level of environmental protection and meets the requirements for class I leak detection EN 13160-2.

The VIMS sensor is directly connected to the FAFNIR VISY-X technology, displaying detailed information:

- Actual status of the system pressure and vacuum pump
- Leak alarms for air, water and product
- Identification of the monitored tank, pipe or pipe section



Operating Conditions

Temperature range: $-20/+60\text{ }^{\circ}\text{C}$

Power supply: 24 V_{DC}

Communication: Ex i

Temperature code: T4

Gas group: II B

Dimensions

$\text{Ø } 60\text{ mm}$, L = $\sim 125\text{ mm}$

Approval

TÜV-A 18 ATEX 0050 X

Intelligent reaction reduces profit losses

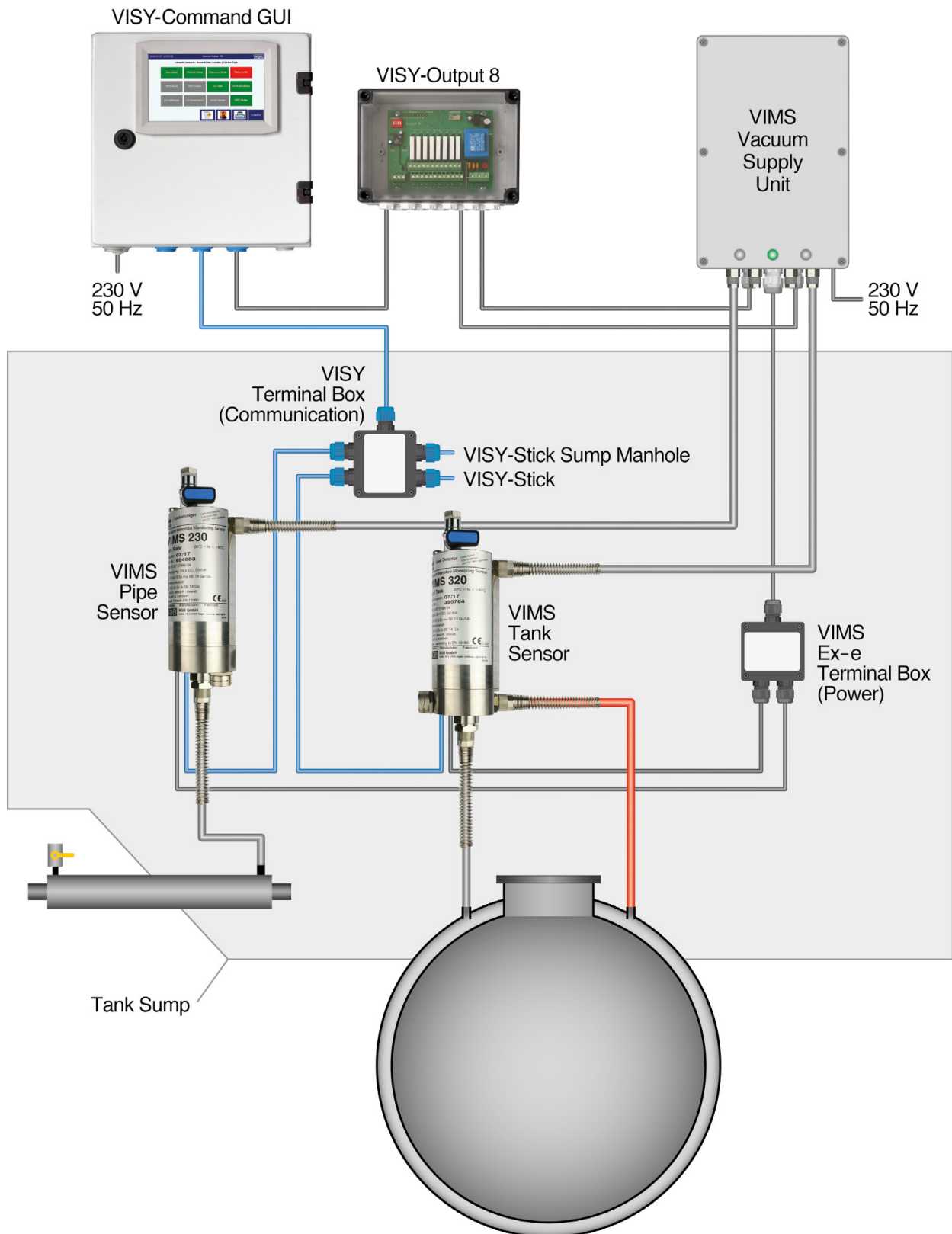
Any alarm requires reaction! False alarms therefore to be avoided. An alarm should be identified immediately, revealing the reason and components involved. A pump shutdown due to a leak alarm always causes profit losses

and should be avoided as much as possible. Depending on the type of alarm, the VIMS technology is able to decide if an immediate shutdown of the submersible turbine pump (STP) is needed or not.

VIMS provides the perfect solution:

- No false alarms
- The FAFNIR VISY-Command GUI displays alarms and differentiates by type and component. The differentiation of air, groundwater or product leaks will reduce profit losses caused by unnecessary fuel pump shutdowns:
- **Air leak:** When the secondary wall is no longer tight, but the vacuum in the interstice is still maintained. There is no immediate risk for environmental pollution, which allows a certain reaction time for troubleshooting.
- **Water leak:** When the ground water enters through the secondary wall. No immediate environmental risk. Allowance for sufficient reaction time for maintenance.
- **Product leak on a tank:** When the STP will continue running to empty the tank. Tank refilling should be prevented.
- **Product leak on a pipe:** When the primary pipe is leaking. The STP will create overpressure in the interstice and product might pollute the environment. In case of product in the interstice, the STP will be shut down immediately.

VIMS Installation scheme



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