

Leak Detector Type V80 EX – Version “H”

Product Discription

Application: The leak detector is applicable for double-walled tanks, double-walled bottoms or single-walled tanks with a leak protection lining.

It is also applicable for double-walled pipes with max. operating pressure of 6bar.

Stored liquids: Water-endangering liquids, also with a flash point $\leq 55^{\circ}\text{C}$, temperature class T4, explosion group IIA, (IIB-option).

Approval: General Design Permit (DIBT) No. **Z-65.22-217**, Tested by TÜV Nord, Hamburg
ATEX Certificate **PTB99 ATEX 2037 X**

Assembly: The armature box can be installed in the ex zones 1 and 2.
The switch box must be installed outside the ex zones.

Function: The leak detector works on the vacuum principle.
Visual and audible alarms are triggered by a pressure increase as a result of leaks in the tank walls, above or below the liquid level.
The vacuum pump draws air from the monitoring space through suction line. Normally, the exhaust air is pumped back into the tank.

Advantages: Wide range of stored liquids can be monitored by the system.
High reliability of the vacuum controlled system (e.g. against static electricity, thunderbolt)
A leak is detected and reported, before fluid leaks into the environment.

The system prevents against a liquid drain off after an alarm output for a certain period of time.
Small system leakages are balanced by the pump automatically.

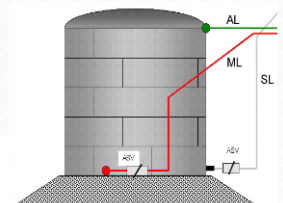
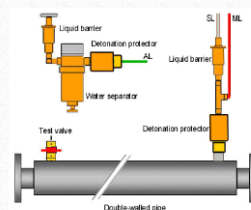
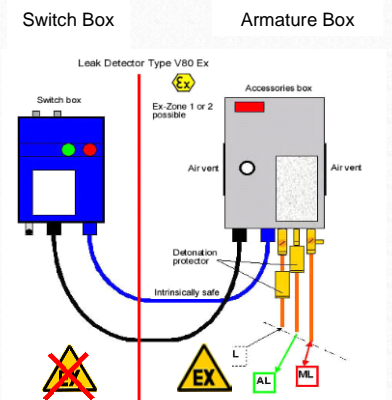
Air and fluid leakages are detected, indifferently if the inner or outer tank wall is leaking.

Beside an annual functional inspection, normally there is no further maintenance required.

All relevant components are protected by an enclosure.
Minimal installation work for the leak detector.

Setup: Alarm “on” P_{Aon} -325 mbar
Pump “off” P_{Poff} -450 mbar

Standard: EU Standard for Leak Detection Systems
EN 13160-2, Class 1



Detailed data in the documentation / assembly instructions.

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Armature Box:

Protective enclosure,
coated steel, option stainless

Including:

- Pump
- Pressure switch
- Flame arrestors IIA (option IIB)
- Liquid barrier (AKS)
- Condensate vessel (AKS)
- Heater (option)
- Pressure gauge (option)
- Test valves

Version AKS for flat bottom tank



Version AK for tanks and pipes



Switch Box:

Protective enclosure

Including:

- Switching amplifier for the intrinsically safe connection
- Operation and alarm light
- Acoustic alarm (buzzer)
- Terminal connectors
- Potential free relay

Single switch box



Multi switch box



Installation Kits (examples):

