

LEAK DETECTOR TYPE D9 – PRESSURE PRINCIPLE

- without / with Manifold

Field of application:

- Underground and aboveground double-walled tanks with a monitoring space permitted to an pressure up to 0.6 bar.
- With an appropriate manifold system, up to 6 underground tanks can be monitored with one leak detector - the overall monitoring space volume may not exceed 8 m³.
- Tanks without leak detection fluid in the monitoring space.

Stored liquids: Water-endangering liquids, also with a flash point $\leq 55^\circ \text{C}$

Approval: General Design Permit (DIBT) No. **Z-65.23-109**
Tested by TÜV Nord, Hamburg

Assembly place: Within dry, frost-protected area, or outside into a protective enclosure.
It is not allowed to install the leak detector in an ex - zone!

Function: The leak detector works on the pressure principle. Visual and audible alarms are triggered by a pressure drop as a result of leaks in the tank walls, above or below the liquid level. Ambient air is drawn by the pump through an integrated air dryer and pumped with a max. relative humidity of 10% into the monitoring space. Small system leakages are balanced by the pump automatically. An integrated pressure valve on the pump protects the tank against damage ($P_{\text{ÜS}}$).

Switching values:	in mbar	Pump "off"	P_{Poff}	450
		Pump "on"	P_{Pon}	375
		Alarm "on"	P_{Aon}	325
		Alarm "off"	P_{Aoff}	410
		ÜSV "open"	$P_{\text{ÜS}}$	490

(All values are approximate)

Drying beads: Pay attention to the right size of the air dryer.

Note: Detailed data in the documentation / assembly instructions.

Standard: EU Standard for Leak Detection Systems Class 1- EN 13160 part 1 to 7

