

LEAK DETECTOR TYPE D29 – PRESSURE PRINCIPLE

Field of application:

- Underground / aboveground double-walled pipes with an appropriate monitoring space, operated at ambient pressure.
- With an appropriate manifold system, up to 6 underground pipes can be monitored with one leak detector - the overall monitoring space volume may not exceed 10 m³.

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

Approval: General Design Permit (DIBT) No. **Z-65.26-410**
Tested by TÜV Nord, Hamburg

Assembly site: 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 pipe.
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 system against damage ($P_{\text{ÜS}}$).

Switching values: in bar

Pump "off"	P_{Poff}	1,5
Pump "on"	P_{Pon}	1,3
Alarm "on"	P_{Aon}	1,1
Alarm "off"	P_{Aoff}	1,4
ÜSV "open"	$P_{\text{ÜSV}}$	1,65

(All values are approximate)

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

Note: Detailed data in the documentation / assembly instruction.

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

