

# Leak detection technology

*For a clean and protected environment*



## **NEW:** Overpressure leak detector DL 280 FC with integrated dry filter control



A leak prevention system to monitor double walled tanks. This model is equipped with an integrated dry filter sensor to indicate that the dry filter material is used. By this condensation and corrosion in the interstitial space can be avoided because a maintenance signal is indicated. Additionally this signal can be transferred via dry relay contacts.

The leak detector DL 280 FC is suitable for monitoring several underground tanks. Leaks in one of the walls will be detected and indicated by an optical and audible alarm before any stored product can enter the environment.

A class I – leak detection system with the highest environmental protection level according to the European standard EN 13160.

### Liquids:

- Water polluting liquids
- e.g.: petrol/gasoline, diesel, heating oil, lye, acid.



### For the monitoring of:

underground double walled tanks with a diameter of 2,50 meters and a test pressure of the interstitial space of minimum 400 mbar, EN 12285-1.

### Approvals:

Germany: Z - 65.23 - 409



**top:** leak detector DL 280 FC with two three-way valves for a quick and easy function test

**middle:** connections for tubing in different types available e.g. quick union for PA-tubing 8/6 x 1 mm

**bottom:** LED indication for the operational, maintenance (for the dry filter) and alarm status

Type	Alarm pressure	Operating pressure	Max. pressure on low point of interstitial space.
DL 280 FC	> 280 mbar	< 320 mbar	250 mbar

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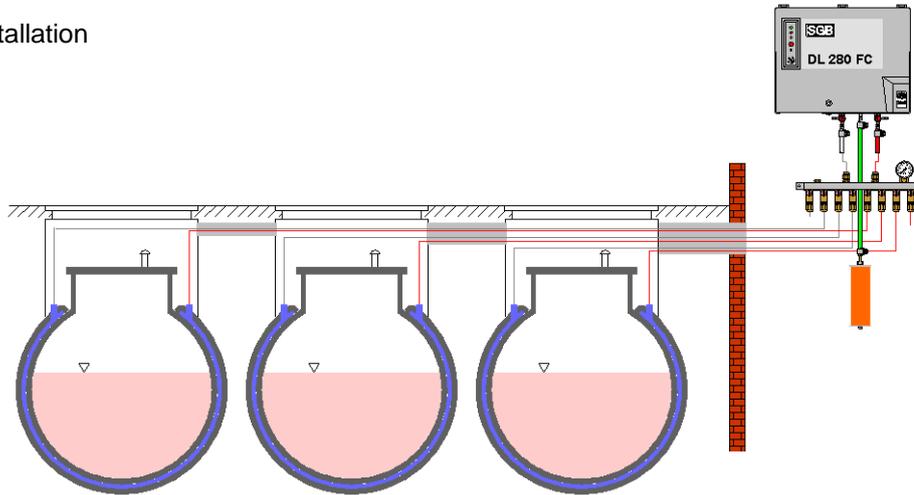
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## Overpressure leak detector DL 280 FC

Scheme of installation



### Monitoring principle:

The pump in the leak detector creates an operational overpressure in the interstitial space. This operational pressure is higher than the pressure of the stored product/ground water to the low point of the interstice.

In case of a leak, the compressed air will escape through the leak. This prevents product or groundwater entering the interstitial space. Any minor unavoidable untightness is compensated by the system automatically.

If the volume flow of air escaping from the interstitial space is higher than the limited volume flow of the pressure pump, the pressure will drop to the alarm pressure. An optical and audible alarm will be released.

The compressed air in the interstitial space is dried by the dry filter mounted to the leak detector. Therefore a condensation of water in the interstitial space is prevented. An inadmissible overpressure in the interstitial space is prevented by a pressure relief valve.

### Installation advice:

The leak detector shall not be installed in potentially explosive areas. For the use free air, a weather-proof version ("P") of the leak detector is available.

Coloured, flexible or rigid tubes are used as a connection between leak detector and interstitial space. If several tanks are monitored a manifold is used.

Useful devices for function tests within the leak detector guarantee a quick and safe examination of the functional reliability. Additional alarm signal units can be connected directly to the leak detector. Dry relay contacts for alarm transmitting can be used optionally.

When operating, installing and commissioning the leak detector DL 280 FC, the conditions laid down in the approval for the leak detector, tank and/or lining shall be observed.

All works shall be carried out by a qualified person.

Subject to changes. Photos and dimensions are not binding for the extend of delivery.

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