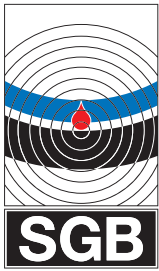


Switching values LDU22 (extract)

Type LDU22 Tanks	Max. pressure on tank floor, mbar	Switching value „Alarm ON“, mbar	Switching value „Pump OFF“, mbar	Opening pressure overpressure valve, mbar	Min. test pressure interstitial space, mbar
T230	200	> 230	< 310	360 ± 10	≥ 400
T280	250	> 280	< 330	360 ± 10	≥ 400
T330	300	> 330	< 410	465 ± 20	≥ 500

Type LDU22 Pipes	Max. feed pressure inner pipe, bar	Switching value „Alarm ON“, bar	Switching value „Pump OFF“, bar	Opening pressure overpressure valve, bar	Min. test pressure interstitial space, bar
P1.1	0,1	> 1,1	< 1,45	---	≥ 5,0
P2.0	1,0	> 2,0	< 2,4	---	≥ 5,0
P3.5	2,5	> 3,5	< 4,4	4,6 ± 0,1	≥ 6,5

Special switching values on request



LEAK PREVENTION TECHNOLOGY

For a clean and protected environment

LDU22



NEW

LDU22:

The leak prevention system for double-walled tanks and pipelines at petrol stations

24/7 monitoring of both walls (inside and outside)

Tank and pipe monitoring with only ONE device

No product loss, no environmental pollution



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## NEW LDU22 – safety for tanks and pipes at filling stations

- optimized internal pneumatic connections
- power supply 100–240 V AC or 24 V DC
- larger temperature application range
- larger dry filters
- display of system pressure inside

The air-based LDU22 leak detection unit is the permanent and safe leak monitoring system for double-walled tanks and pipelines at filling stations!

One leak detection unit LDU22 is made to monitor up to 18 underground tanks or up to 32 pipelines. The combination of tank and pipeline monitoring is also possible because tanks as well as pipelines are monitored with two separate overpressure leak detections systems. The combination of up to 28 tanks/pipelines is possible.

### Medium and environment are fully protected

In the event of a pressure loss in the interstitial space, i. e. in the event of a leak, an alarm is triggered before the stored/conveyed liquid can reach the environment. Likewise, the penetration of liquid from outside (e.g. groundwater) into the medium is reliably prevented. In this way, the stored goods and the environment are optimally protected against contamination and damage. The operator also gains valuable time to take active measures.

The LDU22 leak indication unit thus meets the high environmental protection and safety requirements of EN 13160, class I.

### Operating principle:

The LDU22 for tanks and/or pipelines generates a specified operating pressure in the interstitial space via central pumps. If this pressure drops to the alarm pressure in the event of a leak, the acoustic or optical alarm is triggered. The prerequisite for this type of leak monitoring is sufficient pressure resistance of the tank and the pipeline. The leak detection medium is dried air.

### Installation:

LDU22 is installed outside hazardous areas or in areas where zone 1 does not exceed 0.8 meters in height.

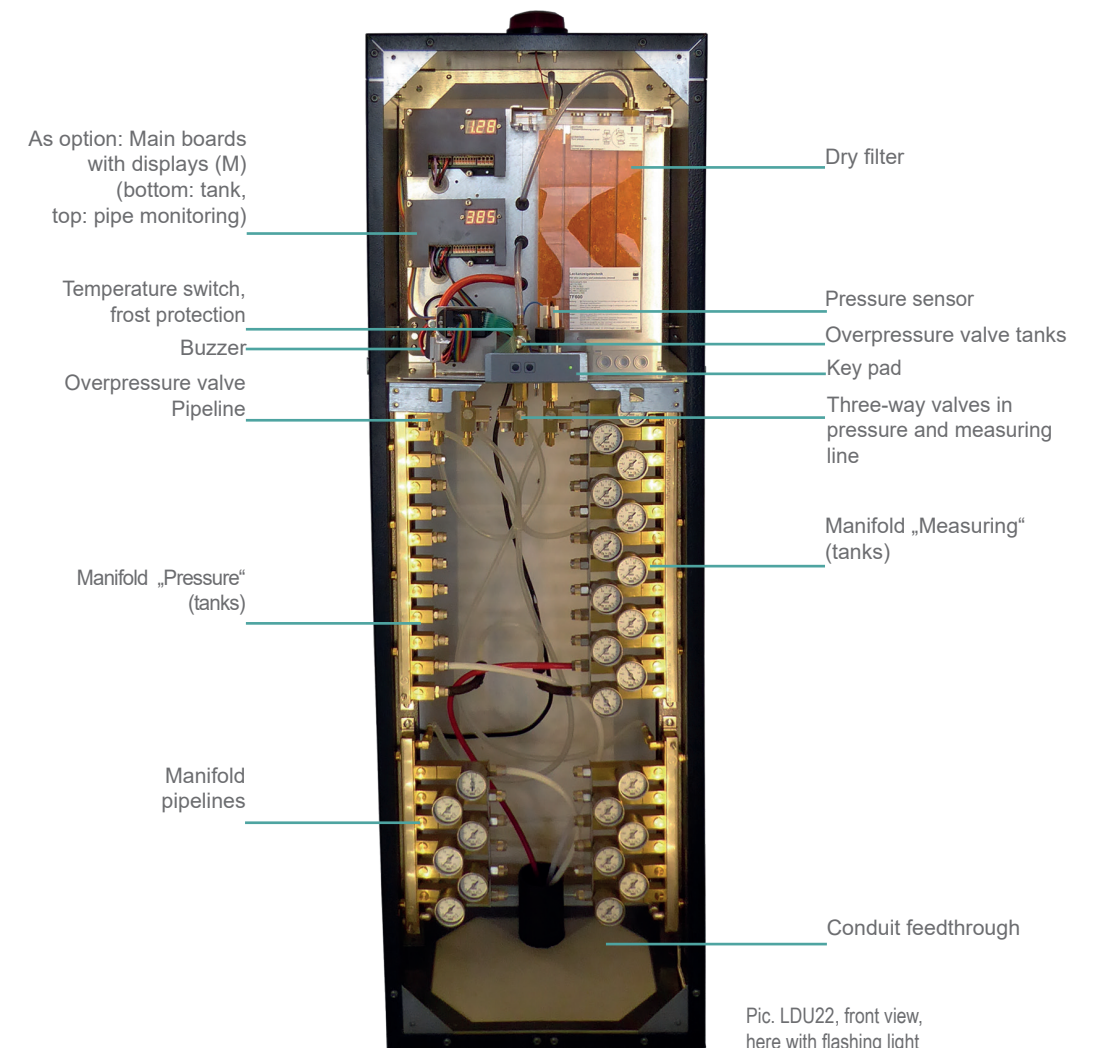
### Options:

- dry filter monitoring (Filter control FC)
- digital pressure display (Manometer M)
- heating H

LDU22: the air-based leak detector in a solid metal box for outdoor installation.



Interior front view of LDU22



Pic. LDU22, front view, here with flashing light

### LDU22:

- slight container taking less space (380 x 300 x 1200 mm)
- solid metal box; stainless steel as option
- easy installation
- easy controll and functional check of pneumatic parts
- standard positioning of manifolds
- particular large dry filter
- electronic monitoring of the unit for an easy and fast annual function test



More convenience:  
Access to the rear through front-hinged mounting plate

### Technical data

#### General data

Storage temperature:	-40°C ... +60°C
Operating temperature:	-10°C ... +60°C
- with heating (H):	-40°C ... +60°C
Max. height for safe operation:	≤ 2000 m above sea level
Max. rel. humidity for safe operation:	95 %
Volume buzzer:	> 70 dB(A) in 1 m
Housing protection class:	IP 43

#### Electrical data

Power supply:	100 ... 240 V, 50/60 Hz
-optional:	24 V DC
Input capacity (without external signal):	P max. 150 W
Terminals 11–13 (potential free):	DC ≤ 25 W, AC ≤ 50 VA
Terminals 17–19 (potential free):	DC ≤ 25 W, AC ≤ 50 VA
External fuse:	max. 10 A
Overvoltage categorie:	2
Degree of soiling:	PD2