

Options and accessories VLXE .. M:



Service Indication Si
Time intervals for main-
tenance are adjustable
from 1 up to 63 months.



Hood for housing
Extra protection for the
leak detector against we-
ather conditions in case
of outside installation.
Material:
stainless steel 1.4301
Dimensions:
348 x 365,5 x 250 mm
Art.no.:
412261

Technical data

General data

Weight: 8,3 kg
Operational temperature range: -40 °C—+60 °C
Sound volume buzzer: > 70 dB(A) in 1 m
Protection class: IP 66
Max. height for safe operation: ≤ 2000 m NN
Max. relative humidity for safe op.: 95 %

Ex data (ONLY pneumatic part)

Ex II 1/2G Ex c IIB3 T4 Ga/Gb

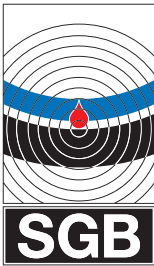
Electrical data

Power supply: 100 to 240 V, 50-60 Hz
- optional: 24 V DC
Power consumption: 50 W (including heating)
Terminals 5,6 external signal: max. 24 V DC, max. 300 mA
Terminals 11 ... 13 (voltage free): DC ≤ 25 W or AC ≤ 50 VA
Terminals 17 ... 19 (voltage free): DC ≤ 25 W or AC ≤ 50 VA
Fuse: max. 10 A,
1500 A breaking capacity

Switching values VLXE .. M

Type	Alarm ON, at the latest	Pump OFF, not more than	Vacuum operability interstitial space ≥
34*	34 mbar	100 mbar	250 mbar
80*	80 mbar	140 mbar	400 mbar
230	230 mbar	360 mbar	650 mbar
255	255 mbar	380 mbar	650 mbar
330	330 mbar	450 mbar	700 mbar
410	410 mbar	540 mbar	750 mbar
500	500 mbar	630 mbar	850 mbar
570	570 mbar	700 mbar	900 mbar

* Only with suction line to the deep point of the interstitial space



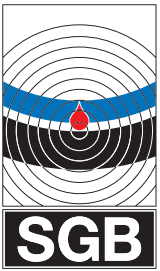
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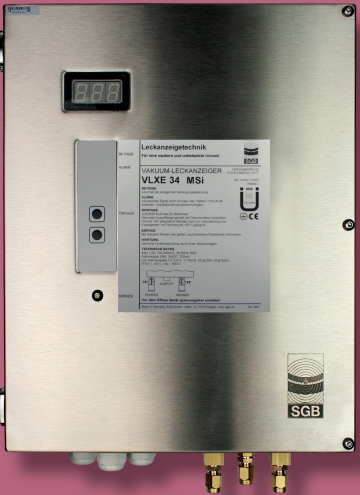
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LEAK PREVENTION TECHNOLOGY

For a clean and protected environment



VLXE .. M



VLXE .. M:

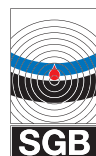
*The first fully electronic vacuum leak detector for
the leak monitoring of double-walled tanks
and double-walled pipes with hazardous liquids*

Also for tanks
with petrol
leak protection
linings

24/7 leak monitor-
ing of both walls
(inner and outer)

For unpressurized
double-walled
tanks and pipes

No product loss,
no environmental
pollution



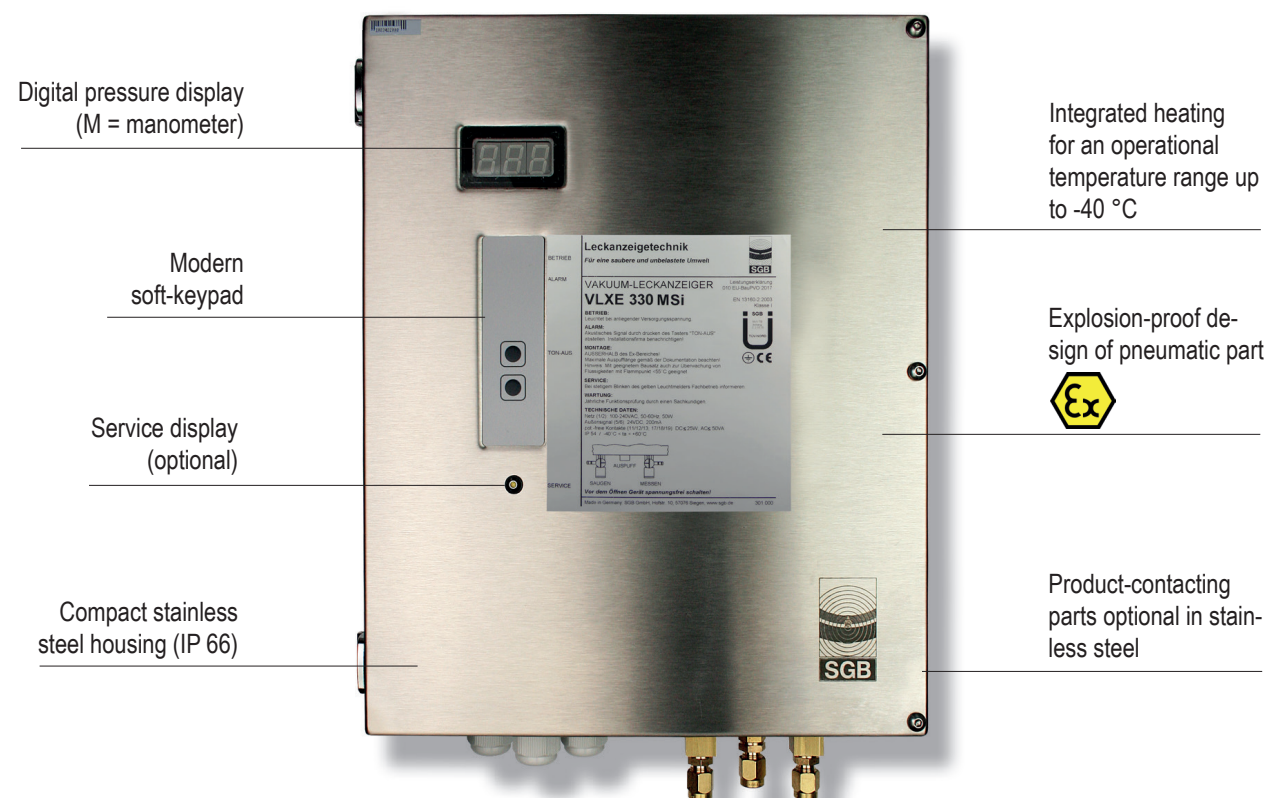
Vacuum leak detector VLXE .. M – More safety handling hazardous liquids

The leak detectors VLXE .. M monitor unpressurized double-walled tanks and pipes. VLXE .. M is a leak detection system with a basic explosion protection to be mounted outside Ex areas. With its partially explosion-proof design, ethanol-containing fuels can also be monitored. Its full electronic equipment is unique.

Due to the safe and continuous monitoring each leak will be reliably indicated – regardless whether the leak is in the inner or outer wall. And this *before* any stored or transported liquid can enter the environment!

Vacuum
leak detectors
VLXE .. M meet the
highest environmental
protection and safety
requirements of
EN 13160,
class I.

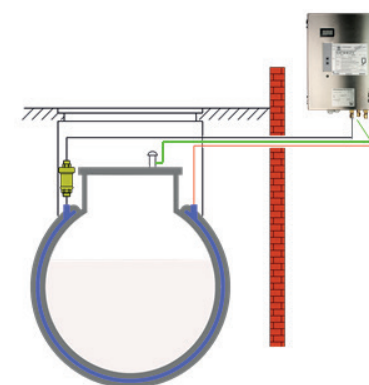
THE NEW TECHNICAL STANDARD



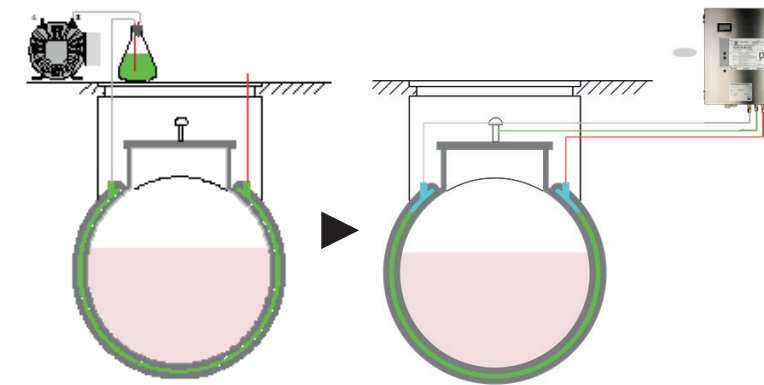
Your advantages & high ease of use

- One-piece housing for lateral opening
- Microprocessor controlled data logging
- Digital pressure display „M“
- Automatic calculation and display of the tightness of the entire monitoring system
- Insensible soft-keypad that is completely tight integrated into the housing's surface
- Designed for outdoor installation (stainless steel housing with IP 66)
- Multirange power supply: 100–240 V AC or optional 24 V DC
- Fully electronic
- Resistant to many liquids through brass or stainless steel version
- Potential-free relay contacts are standard

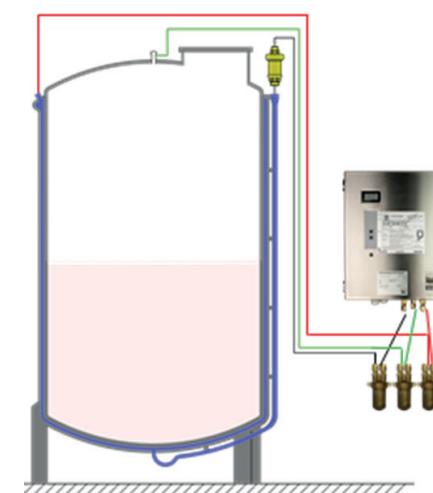
Installation examples – installation of the LEAK DETECTOR ALWAYS OUTSIDE ex-area



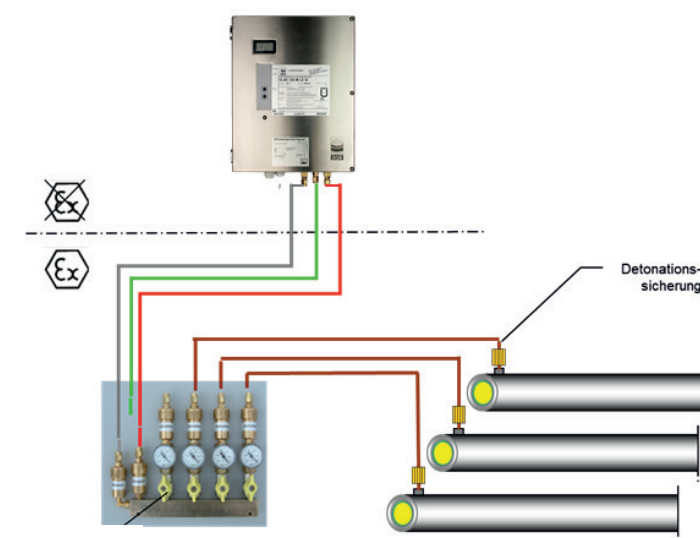
► Tank with lining or double-walled steel tank



► Change over from liquid leak detection to vacuum monitoring



► Vertical cylindrical tank



► Pipes

Monitorable tanks

Tanks with max. 50 mbar overpressure, e. g. due to vapour recovery lines, for liquids with a flash point ≤ 60 °C (Germany ≤ 55 °C) are considered to be unpressurized. This may be e. g.:

- Single-walled horizontal cylindrical tanks with lining or jacketing
- Double-walled horizontal cylindrical tanks
- Double-walled or single-walled tanks with lining or jacketing vertical cylindrical tanks or sumps with dished bottoms
- Rectangular or cylindrical tanks or sumps with flat bottoms (completely double-walled or with lining or jacketing)

Monitorable pipes

Double-walled sufficiently pressure resistant (interstitial space must be sufficiently pressure resistant!) pipes and fittings made of metal or plastic in factory or on-site construction.

Installation kits for connecting the leak detector are available from stock for all common pipe manufacturers.

Monitorable liquids

Water-polluting liquids for which the design of the leak detector in brass or stainless steel is considered sufficiently resistant. Occurring vapour-air-mixtures must be heavier than air as well as classifiable in gas group IIA up to IIB3 and temperature code T1 up to T3, like gasoline, diesel, AdBlue for example.

If different water-polluting liquids are conveyed in single pipelines, these should be monitored with several leak detectors for safety reasons. Thus, possible impurities or unwanted chemical reactions can be reliably avoided.

Monitoring hazardous liquids: If the flash point of the liquid (≤ 60 °C, Germany ≤ 55 °C) to be monitored requires explosion protection measures the VLXE .. M can only be used on

- pressureless tanks (no flat-bottom tanks, no vertical tanks)
- pressureless pipes, e. g. filling or suction lines.