

MAXIMAT® LW VK

Leakage detection sensor



INSTRUCTIONS MANUAL

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MAXIMAT® LW VK

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CAUTION

Installation, initial start-up and maintenance may only be performed by trained personnel.
All applicable European and national regulations regarding installation of electrical equipment must be adhered to.

- The device may only be connected to supply power which complies with the specifications included in the technical data and on the serial plate.
- The device must be disconnected from all sources of power during installation and maintenance work!
- The device may only be operated under the conditions specified in the operating instructions!

DESCRIPTION

The leakage detection probe MAXIMAT LW VK ... is used as a leakage monitoring device for permanently installed containers used for the storage of non-flammable, water endangering liquids.

It is always in use with a MAXIMAT SHR C measuring transducer.

Applications: Note that stored liquids may not tend to precipitate insulating or conductive sediments. Their specific weight must be over 0.7 kg/L.

CE mark

In accordance with low-voltage directive (73/23/EEC), EMC directive (89/336/EEC).

TECHNICAL FEATURES

Main power:	Supply from MAXIMAT SHR C measuring transducer
Ambient temperature:	-20 to +60° C
Container pressure:	Atmospheric (0.8 to 1.1 bar)
Hysteresis:	About 2 mm
Suspension cable:	6 m long PVC cable, shielded, 2x0,5 mm ² , TPK sheath; as a standard
Output:	For MAXIMAT SHR C measuring transducer
Terminals	Housing: in PBT, IP 65 acc. EN 60529 Screw terminals: IP 20, wire cross-section is 0.5 mm ² as a minimum and 2.5 mm ² as a maximum; length of 300 m as a maximum
DIBT Approval	Approval no. Z-65.40-272 for overfill inhibitors and leakage sensors in accordance with WHG §19

Note: The accompanying “**General Building Supervisory Approval no. Z-65.40-316**” is an integral part of the operating instructions and all stipulations contained therein must be adhered to!

MOUNTING

The leakage sensor's probe is suspended such that it hangs into the catch basin of the storage tank to be monitored.

The cable must be secured such that the probe is always positioned vertically.

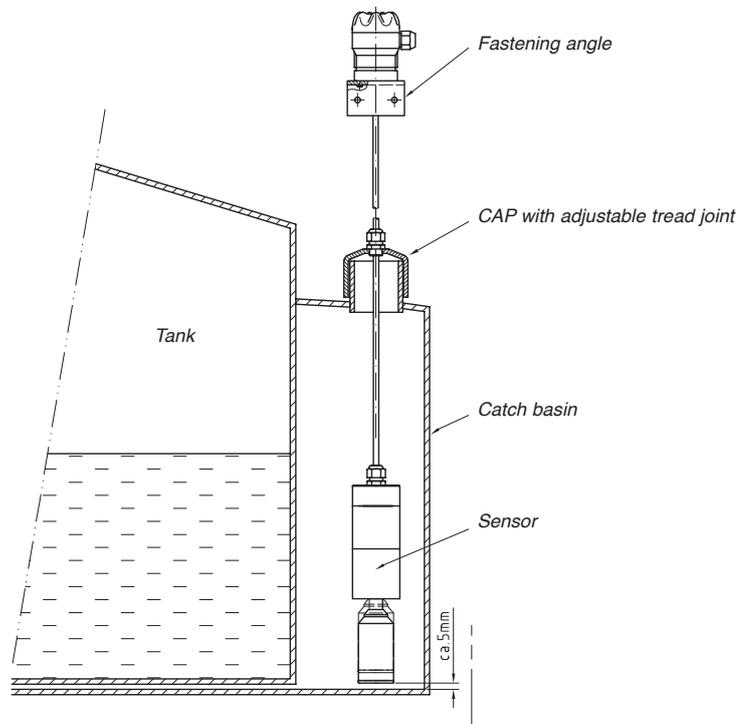
The connector cable between the probe and the measuring transducer is pulled through the Pg fitting mounted to the bracket or the cap until the portion of the cable inside the catch basin holds the probe in the vertical position.

When installed in a free-hanging manner, it must be assured that the connector cable is only pulled far enough through the adjust or fitting to allow for a maximum clearance of 5 mm between the probe and the catch basin floor, so that the leakage alarm is triggered at a maximum fill-level of 50 mm.

MOUNTING EXAMPLE

Leakage sensor position:

For applications involving storage tank catch basins, the probe must be installed such that the alarm signal is triggered at a fill-level of 50 mm.



PERIODIC TESTING

The leakage probe must be tested for correct functioning at reasonable intervals, although not less than once a year. It is the sole responsibility of the user to select the utilised test type, as well as a testing interval within the prescribed timeframe.

Testing must be performed which substantiates flawless functioning of the leakage sensor, and correct interaction with all other associated components. This is assured by means of suitable simulation of a leak, or the physically measured effect which causes triggering of the alarm signal.

COMPONENT MATERIALS

In the event of a tank leak, the leakage sensor (probe and probe tube) comes into contact with the stored liquid, or vapours and condensate resulting there for. For this reason, leakage sensor materials must be selected which are adequately resistant to the liquid to be monitored.

MAXIMAT LW VK ...

Components	Materials
Float	PE-HD (polyethylene)
Probe tube	PE-HD (polyethylene)
Cap (dia.63 mm)	PVC (polyvinyl chloride)
Bracket	PVC (polyvinyl chloride)
Pg fitting	PA (polyamide)
Seal / Pg fitting	NBR (Perbunan)
Measuring cable	TPK sheath

WIRING

