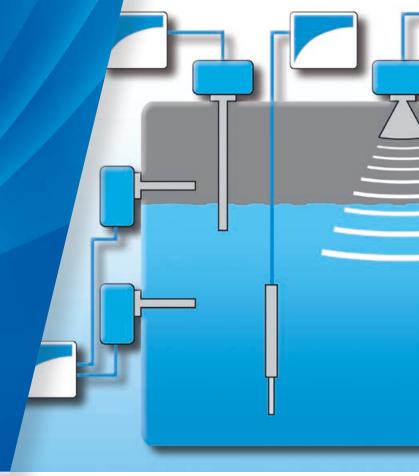
Applications guide

Applications for Labkotec level switches and measurements

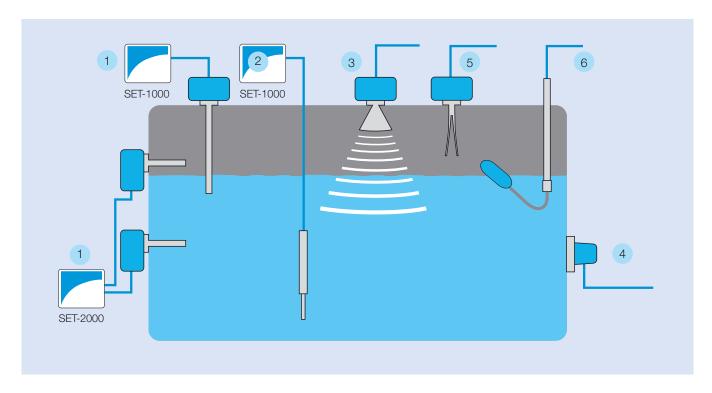




Measure your success



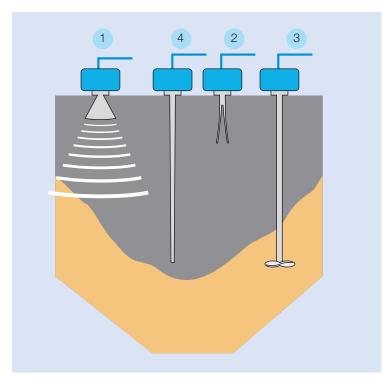
Level switches for liquids



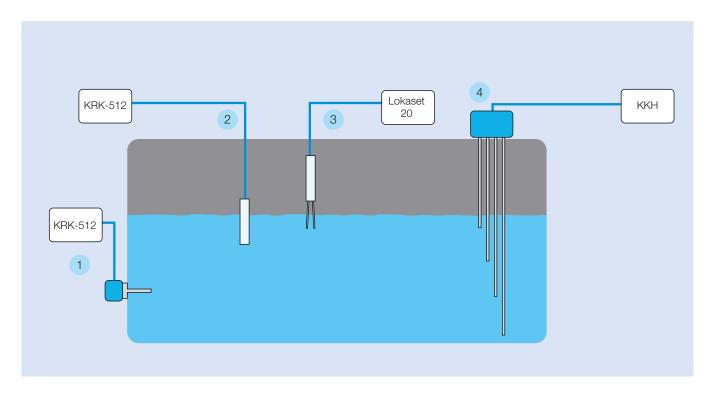
- 1 Capacitive level switch, control units SET-1000 or SET-2000
- 2 Capacitive level switch, cable wire sensor. Control units SET-1000 or SET-2000
- 3 Ultra level switch
- 4 Non-invasive level switch
- 5 Vibration sensor
- 6 Float level switch

Level switches for solid dry materials

- 1 Ultra level switch
- 2 Vibration level switch
- 3 Rotary paddle switch
- 4 Capacitive level switch



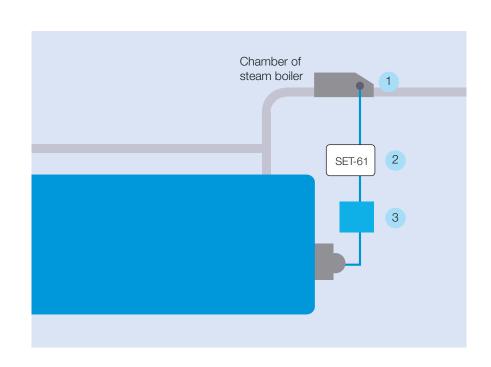
Conductive level control for water



- 1 SET/J1 sensor, control unit e.g. KRK-512
- 2 SET/K sensor, control unit e.g. KRK-512
- 3 SET/LV sensor and alarm device Lokaset 20
- 4 KKH conductive level switch

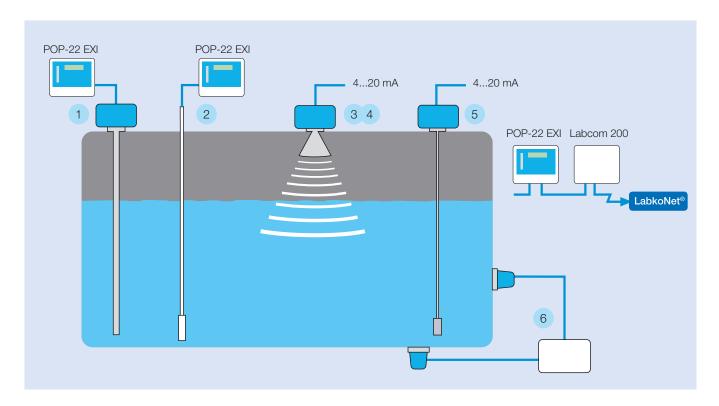
Dry boiling prevent

- 1 SET/J1 sensor
- 2 SET-61 control unit
- 3 Automation of oil burner





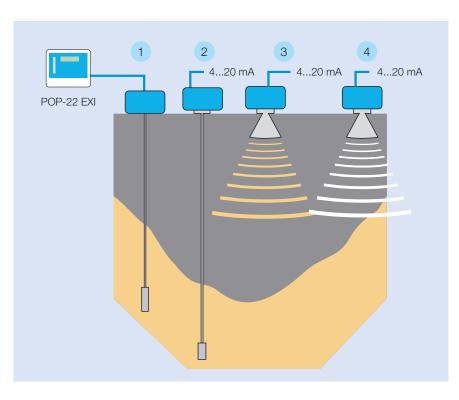
Level measurement for liquids



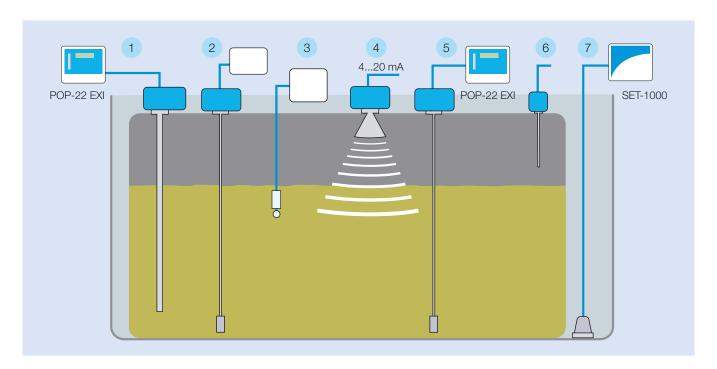
- 1 Capacitive sensor, control unit POP-22 EXI
- 2 Pressure sensor, control unit POP-22 EXI
- 3, 4 Ultrasonic or radar
- 5 Guided microwave transmitter
- 6 Non-invasive tank level

Level measurement for dry solid materials

- 1 Capacitive cable wire sensor
- Guided microwave transmitter
- 3 Radar
- 4 Ultrasonic



Oil, petrol or chemical tank level measurements and alarms

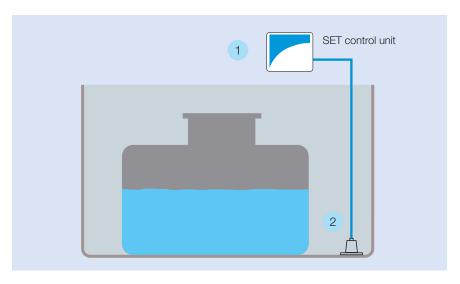


- 1 Level measurement, capacitive tube sensors, control unit POP-22 EXI
- 2 Level measurement, pressure sensor, control unit DTA-10 (no ex-certificate available)
- 3 Level switch, MiniSET/MaxiSET
- 4 Ultrasonic devices
- 5 Pressure sensor, Ex-barrier
- 6 Overfilling protectors
- 7 Leakage alarm devices

Leakage of oil, water or chemicals

SET/OELO2 is a special sensor for leakage alarm in oil burner rooms, in basins under oil tanks.

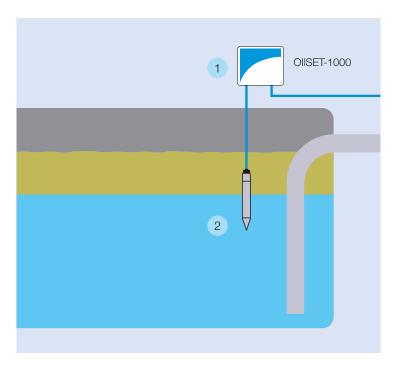
- 1 SET control units
- 2 SET/OELO2 sensor







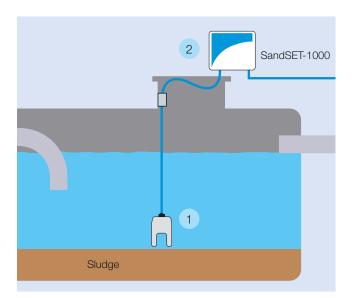
OilSET-1000 alarm device for oil separator



The OilSET-1000 level alarm instrument is specially designed for oil separators and grease traps. It indicates when it is time to empty the oil separator and thus prevents harmful hydrocarbon emissions to the sewer system.

- 1 SET/DM3AL sensor
- 2 OilSET-1000 control unit
- **(€** ⟨€x⟩

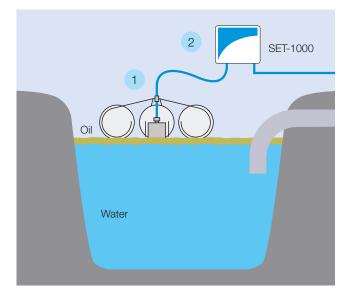
SandSET-1000 sludge alarm device for oil and sand separator



1 SET/S2 sensor

- **(€ ⟨€**x⟩
- 2 SandSET-1000 control unit

Oil alarm for inspection shaft

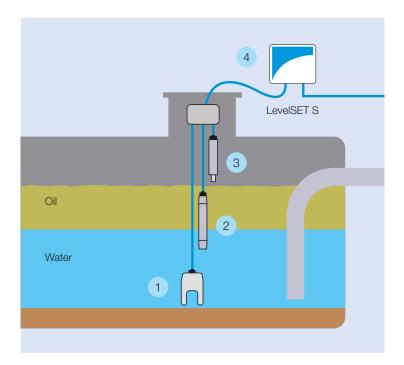


1 SET/OSK2 sensor

(€ €

2 SET-1000 control unit

Oil and grease alarm device

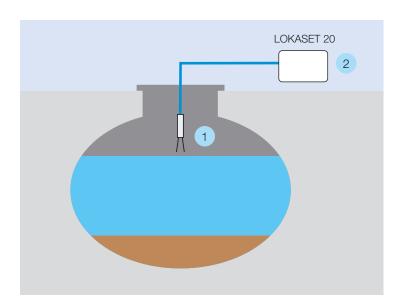


The LevelSET S can be equipped with max. three sensors, one indicates the oil layer, the second indicates blockage detection. i.e. high level in case of sewer blockage or closure of the closing device and the third detects sludge.

Alarm conditions can be transmitted to mobile phones or computer systems via the integrated GSM modem or internal relays can be connected to remote beacons and audible alarms. An inbuilt LED and buzzer indicate the respective alarm condition locally.

- 1 SET/S2 sensor
- **(€ ⟨€x⟩**
- 2 SET/DM3DL sensor
- 3 SET/V sensor
- 4 LevelSET S control unit

Alarm device for septic tank



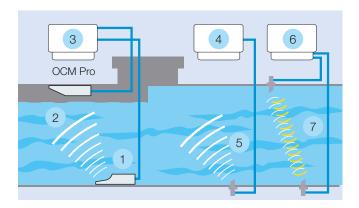
LOKASET 20 control unit is equipped with visual and acoustic signal alarms. The alarm can easily be forwarded with relay output to real estate automation systems or to LabkoNet® alarm monitoring system. More information www.labkonet.com

The LOKASET 20 is a conductivity-operated limit switch. When using the SET/LV sensor, the sensor and its cable are provided with fault monitoring detection, indicating any breakage in the sensor circuit.

- 1 SET/LV sensor
- 2 LOKASET 20 control unit



Flow measurement in pipe

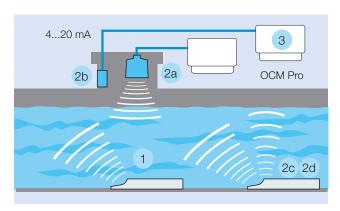


Partially filled pipes

- Velocity sensor
- 2 Level measurement
- 3 OCM Pro control unit

Full pipes

- 4 NFP control unit
- 5 Pipe sensor
- 6 Clamp-on transit time device
- 7 Sensors

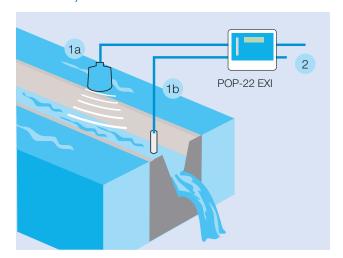


Partially filled pipes

- 1 Velocity sensor
- 2a External level measurement
- 2b External ultrasonic 4...20 mA
- 2c Velocity level sensor
- 2d Velocity level pressure
- 3 OCM Pro control unit

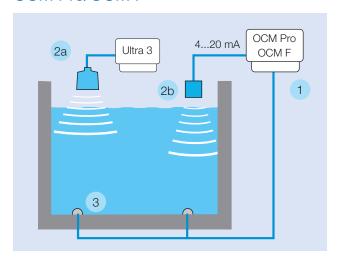
Flow measurement in open channels

V-flume, venture or overflow weir



- 1a Ultrasonic
- 1b Pressure sensor
- 2 POP-22 EXI control unit

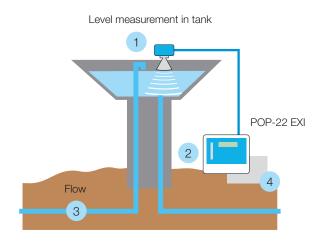
OCM Pro/OCM F

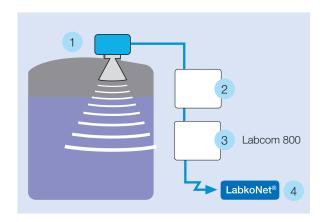


- 1 OMC Pro/OCM F control unit
- 2a Level measurement device
- 2b Ultrasonic, 4... 20 mA
- 3 Sensors 1-3 pcs

Water supply network and water tower

- 1 Capacitive MET, ultrasonic or pressure sensor
- 2 POP-22 EXI control unit
- 3 Flow measurement
- 4 LabkoWin remote control and automation system



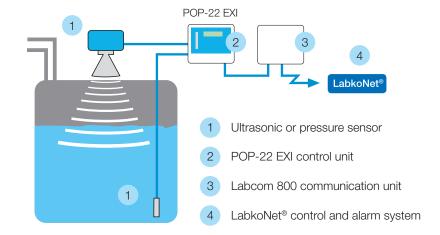


Level measurement and control of chemical tanks

- 1 Ultrasonic or radar
- 2 Control unit
- 3 Labcom 800 communication unit
- 4 LabkoNet® control and alarm system

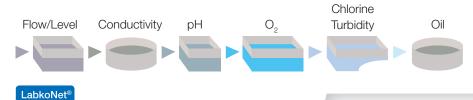
Level control of waste water pumping station

The POP-22 EXI is a versatile level controller to monitor levels, control pumps and valves. It can be connected to the LabkoNet system.



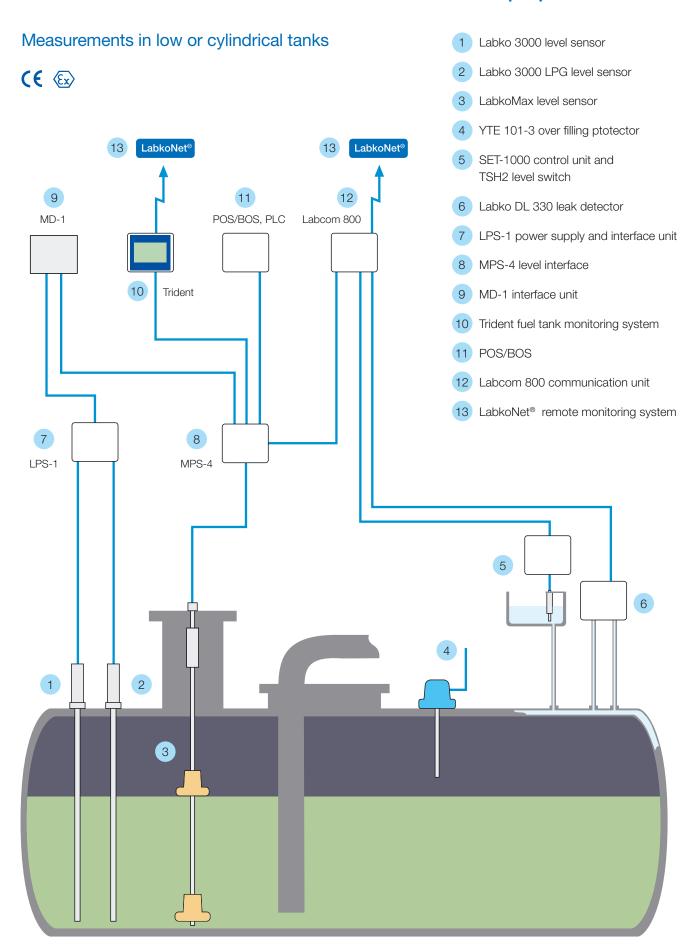
Measurements for waste water treatment plant

In addition to pH, Redox, conductivity, turbidity, oxygen and chlorine analyzers, we supply online equipment for TOC, COD and ammonia content.





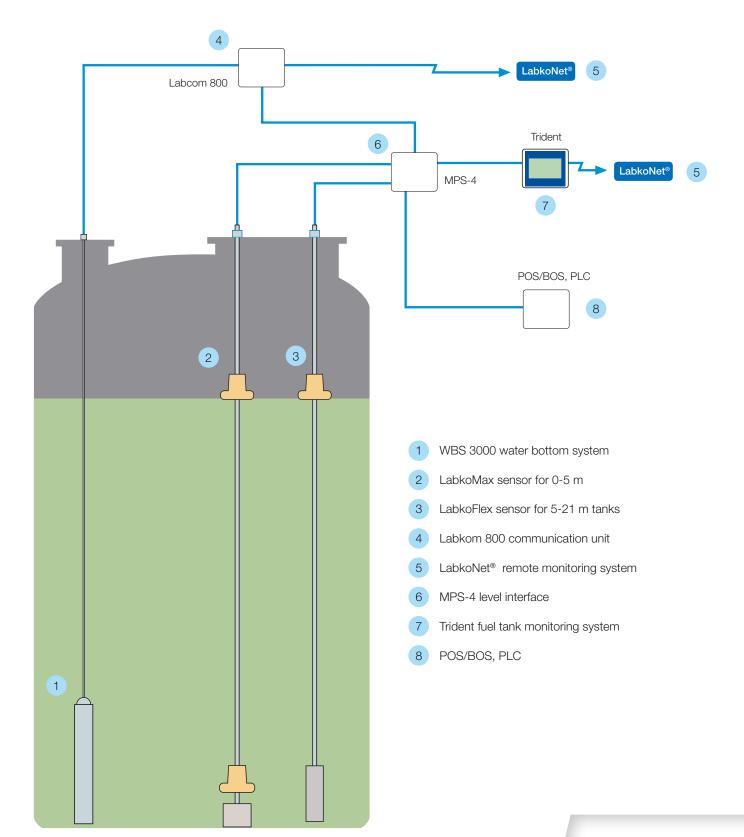
Petrol station and fuel terminal equipment



Petrol station and fuel terminal equipment

Measurements in high tanks









Measure your success with Labkotec

Labkotec Oy is a leading Finnish manufacturer and supplier of electronic level gauges, flow detection devices and alarms, automation and detector technology, and web-based data transmission solutions.

We have 50 years of experience of the industry, and have pioneered several new solutions. Our diverse and comprehensive expertise enables us to supply solutions tailored to each customer's needs.

Our ISO 9001:2008 and ISO 14001:2004 compliant quality and environmental systems are certified by Lloyd's Register Quality Assurance. As regards to safety, we comply with the ATEX and ISPS standards.

Labkotec Oy is a member of the international Indutrade Group.

Our electronic level gauges and leak detection and flow measurement technologies cover a comprehensive range of applications. Our communication units and data transmission systems relay readings in real time, independently of permanent electrical or cable networks.

Our automation and detector technology is widely used in access control systems in industrial installations, in storage silos and ports, as well as at snow dumping and landfill sites. Our TransControl system is based on RFID identification technology and fulfils the requirements of the International Ship and Port Security Facility (ISPS) code.

Labkotec Oy reserves the rights to alterations without prior notice. Due to policy of continuous improvement in R&D, technical specifications may change. Installation shall always be made as documented in manufacturer's instructions.







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