Labkotec SET sensors

Level detectors for monitoring and control of liquids

- Sensors for various applications
- Warns of excessive levels of oil, sludge & liquids
- No moving parts
- Easy installation
- Remote monitoring
- ATEX approved

Measure your success



Labkotec SET level detectors for monitoring and control of liquids

Labkotec SET level detectors are suitable for a wide variety of applications. When connected to SET-100, SET-1000 and SET-2000 control units, they can be used for the level monitoring and control of water, oil products, acids, alkalis, detergents, solvents and other liquids. All measurements can be connected to LabkoNet remote monitoring systems, www.labkonet.com



SET level detector models

SET/TSH2 sensor for non-viscous liquids

SET/TSH2 is a universal sensor for non-viscous liquids. The most common applications are e.g. water/oil interface detection and high/low level alarm in fuel and chemical tanks. Easy installation by suspension cable or mounting thread. When ordering, please specify SET/TSH2-V for conductive and SET/TSH2-O for nonconductive medium.

SET/TSHS2 sensor for viscous liquids

SET/TSHS2 is a special sensor for viscous liquids. The most common applications are e.g. high level or water interface alarm in grease or heavy oil storage tanks. Equipped with a fork type counter electrode instead of a tube. Other specifications as SET/TSH2.

SET/TSSH2 sensor for non-viscous liquids

SET/TSSH2 is a special sensor with adjustable mounting thread for non-viscous liquids having high temperatures up to 120 °C. It is very versatile, some of the most typical applications being high/low level alarm or high level alarm in a hot water vessel. Standard



SET/OS2 sensor for oil alarm

SET/OS2 is a low-cost capacitive senso for e.g. oil/water interface detection. The transmitter is cast in the sensor.

Floating SET/OSK2

lengths 500 mm

and 800 mm.

SET/OSK2 is a special version of SET/OS2 equipped with polypropylene floats to detect an oil layer in an inspection shaft, pump shaft or on a water basin.

SET/SA2 sensor for difficult circumstances

SET/SA2 is a special sensor for process mediums causing material build-up on the sensing element. Due to its rodtype construction with FEP-coating, SET/SA2 can be

utilized in various applications in difficult circumstances, especially in the process and chemical industries. Standard length 300 mm.



SET/OELO2 sensor for leakage alarm



SET/OELO2 is a special sensor for leakage alarm in oil burner rooms, in basins under oil tanks, cellars or other dry rooms, where leakage of oil, water or chemicals has to be detected.

The transmitter is cast in the sensor, protection class IP68. The sensing element consists of two parallel metallic plates and the transmitter detects the presence of liquid between them.

SET/S2 sludge alarm sensor



SET/S2 sludge alarm sensor is installed in the lower section of the separator. The sensor alarms when the sludge layer reaches the sensor. The probe is normally immersed in water.

SET/V high level sensor

SET/V high level sensor is installed above the outlet's upper level. The sensor alarms when in contact with liquid, oil or water. The sensor is normally in air.



Technical Data

Control units

Sensors



Fault diagnostics and easy choice of operation.

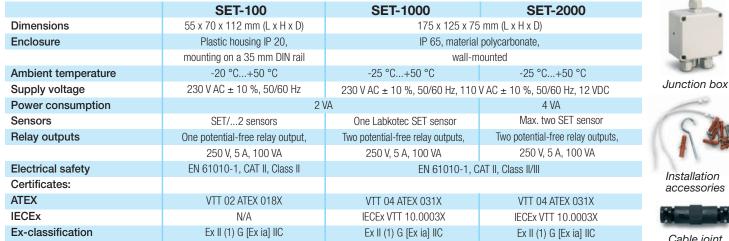


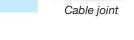
Fault diagnostics and easy choice of operation. Resettable audible alarm. Push buttons on front panel.



Fault diagnostics and easy choice of operation. Resettable audible alarms. Push buttons on front panel.

Accessories







	SET/TSH2 SET/TSHS2	SET/TSSH2	SET/OS2 SET/OSK2	SET/SA2	SET/OELO2	SET/S2	SET/V
Interface to	SET-100, SET-1000, SET-2000					SET-1000, SET-2000	SET-1000, SET-2000
Principle of							
operation	Capacitive	Capacitive	Capacitive	Capacitive	Capacitive	Ultrasonic	Vibration
IP classification	IP 68						
Enclosure	AISI 316, PTFE	AISI 316, PTFE	AISI 316, PVC	AISI 316, FEP	AISI 316, Nylon 12	PA, PVC, aluminium,	PA, PVC, aluminium,
						NBR	NBR
Ambient							
temperature	-25 °C+60 °C	-25 °C+120 °C	-25 °C+60 °C	-25 °C+60 °C	-25 °C+60 °C	-30 °C+60 °C	-30 °C+60 °C
Supply voltage	Approx. 12 VDC from SET control unit						
Cable	3 x 0,75 mm ²	2 x (2+1) x 0,5 mm ²	3 x 0,5 mm ²	2 x (2+1) x 0,5 mm ²	3 x 0,	5 mm ²	2 x 0,75 mm ²
Certificates:							
ATEX	VTT 03 ATEX 024X	VTT 02 ATEX 022X	VTT 03 ATEX 009X	VTT 02 ATEX 022X	VTT 03 ATEX 015X	VTT 09 ATEX 051X	VTT 09 ATEX 025X
IECEx	N/A	N/A	N/A	N/A	N/A	IECEx VTT 10.0002X	IECEx VTT 10.0006X
Ex-classification	Ex II 1 G Ex ia IIB T5 Ga	Ex II 1 G Ex ia IIC T5 Ga	Ex II 1 G Ex ia IIA T5 Ga	Ex II 2 G Ex ia IIC T5 Ga	Ex II 2 G Ex ia IIB T5 Ga	Ex II 1 G Ex ia IIB T5 Ga	Ex II 1 G Ex ia IIB T5 Ga

Applications

Labkotec



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 more than 40 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.



www.labkotec.com www.labkonet.com



Labkotec Oy Myllyhaantie 6 FI-33960 Pirkkala FINI AND Tel. int. +358 (0)29 006 260 Fax int. +358 (0)29 006 1260 E-mail info@labkotec.fi



Labkotec UK Ltd. Adminicle House, 1 Lumb Lane Audenshaw, Manchester M34 5WH **FNGLAND** Tel. int. +44 (0)844 3350 477 Fax int. +44 (0)161 428 1179 E-mail info@labkotec.co.uk

Labkotec AB Ekbacksvägen 28 SE-168 69 Bromma SWEDEN Tel. int. +46 (0)8 130 060 Fax int. +46 (0)8 555 36108 E-mail info@labkotec.se

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.