POP-22 EXI

Level controller 2W/3W level sensors

Robust, proven method for liquid level control

No moving parts, extremely reliable

Very easy to install

Approved according to ATEX Directive 94/9/EC





Measure your success



POP-22 EXI level controller

to monitor levels, control pumps and valves



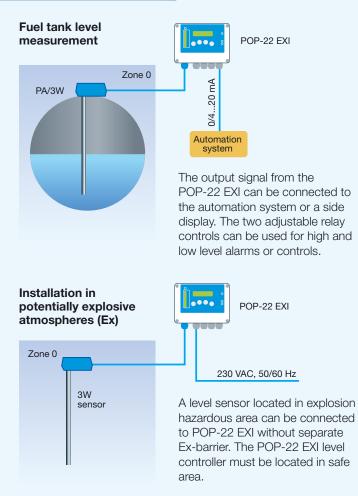
The POP-22 EXI is a versatile level controller to monitor levels, control pumps and valves as well as to send alarms. Labkotec's capacitive 3W sensors – or other loop-powered 2-wire sensors – can easily be connected to the device.

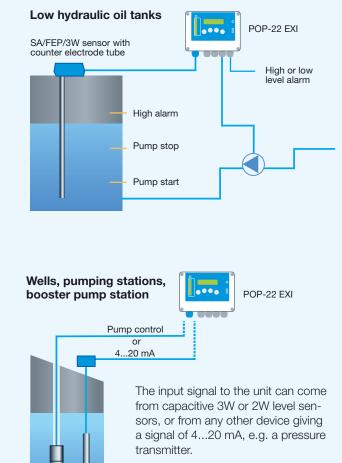
The POP-22 EXI is equipped with an in-built Ex-barrier, thus no separate barrier is needed, if the sensor is located in explosion hazardous atmosphere.



The POP-22 EXI can be connected to **LabkoNet® system.** LabkoNet® is an easy and reliable way of transferring and controlling the alarm data, only an Internet connection is needed. For further information on LabkoNet® and its possibilities, visit **www.labkonet.com**

Applications

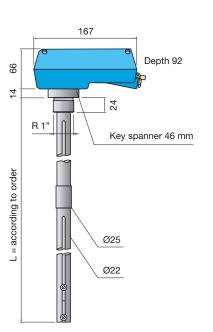




3W sensors for POP-22 EXI level controller

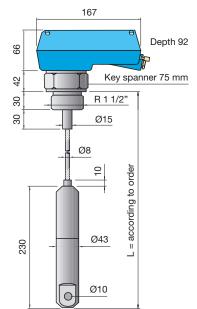
PA/3W sensor PAH/3W sensor

The capacitive PA and PAH tube sensors are typically used for low-conductive liquids, such as oils, fuels, alcohols and solvents, as well as for fresh water level measurement. The sensor consists of a protective tube, which is made up of 1 m long pieces, a measuring cable stretched through its centre, and a transmitter.



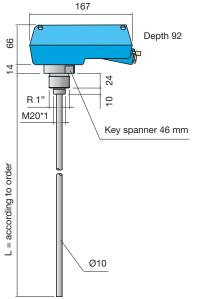
KAS/3W sensor

The KAS wire sensor is intended for level measurement for dry powdery materials in metal tank. The measurement is based on the variation of the sensor's capacitance as a counter electrode of the capacitor. Typical applications are cement, lime, sand and other powdery materials.



SA/FEP/3W sensor

This capacitive rodtype sensor is used for viscous liquids in low tanks (< 2 m). Typical applications are lubricating and hydraulic oils, latex and corrosive liquids. Available with a counter electrode tube for low-conductive liquids or when used in plastic tanks.



Level measurement with other supplier's level sensors

POP-22 EX can also be used with other supplier's 2-wire level sensors. Please note, that the connecting values must be compatible in explosion-hazardous applications.

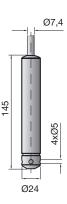
DMU 08 sensor

DMU 08 pressure sensor is designed for continuous indication of the level in waste water facilities, wells or drilling holes.

The DMU 08 pressure sensor, contained in a stainless steel 1.4571 housing, converts pressures of gases and liquids in the pressure ranges from 0/100 mbar to 0/25 bar into proportional current signals.

A great variety of accessories such as screw connection sets, cable boxes with pressure compensation holes (IP 65), terminals, weight extensions or lightning protection for outside applications round off this offering.

Options include a DMU 08 Ex version (Ex protection II 1/2 G Ex ia IIC T4), PUR or FEP cables to customer's length specifications and different temperature ranges.





Technical data

POP-22 EXI level controller

Supply voltage	230 VAC, 50/60 Hz
Connection	420 mA transmitter or a capacitive Labkotec 3W sensor
Relay outputs	Two potential-free switching contacts, 250 V, 5 A, 100 VA – adjustable pick-up and release points
Current output	0/420 mA, linearization for horizontal cylindrical tanks
LED indicators	Supply voltage, relay states, fault condition
Settings	By means of the unit's display and keys
Ex approval	🐼 II (1) G, [Ex ia] II C, VTT 14 ATEX 055X
Ambient temperature	0+50 °C
Enclosure	IP 65, polycarbonate
Dimensions	175 x 125 x 75 mm (WxHxD)



3W level sensors

Materials - wetted parts	FEP Steel AISI 316 Galvanized steel, PVC	All sensors PA/3W PAH/3W SA/FEP/3W KAS/3W
- transmitter housing	Cast aluminium IP 65	All sensors
Temperature range - sensing element - transmitter	-40+150 °C -40+110 °C -40+75 °C -25+60 °C	PA/3W, PAH/3W, SA/FEP/3W KAS/3W All sensors
Max. pressure bar Process junction	Atmospheric R 1" R 1,5"	All sensors PA/3W, PAH/3W, SA/FEP/3W KAS/3W
Max. length	4 m 2 m 10 m	Pa/3W, Pah/3W Sa/Fep/3W Kas/3W

When ordering always remember to specify the medium to measured (also the dielectric constant if known) and the sensor length.

Ex classification	🐵 🛚 II 1 G, Ex ia II B T5, VTT 03 ATEX 067X
Cabling	Shielded instrument cable (3+1) x 0,5 mm ²
Supply voltage	1626 VDC POP-22 EXI control unit
Transmitter linearity of full scale	±1%

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Measure your success



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