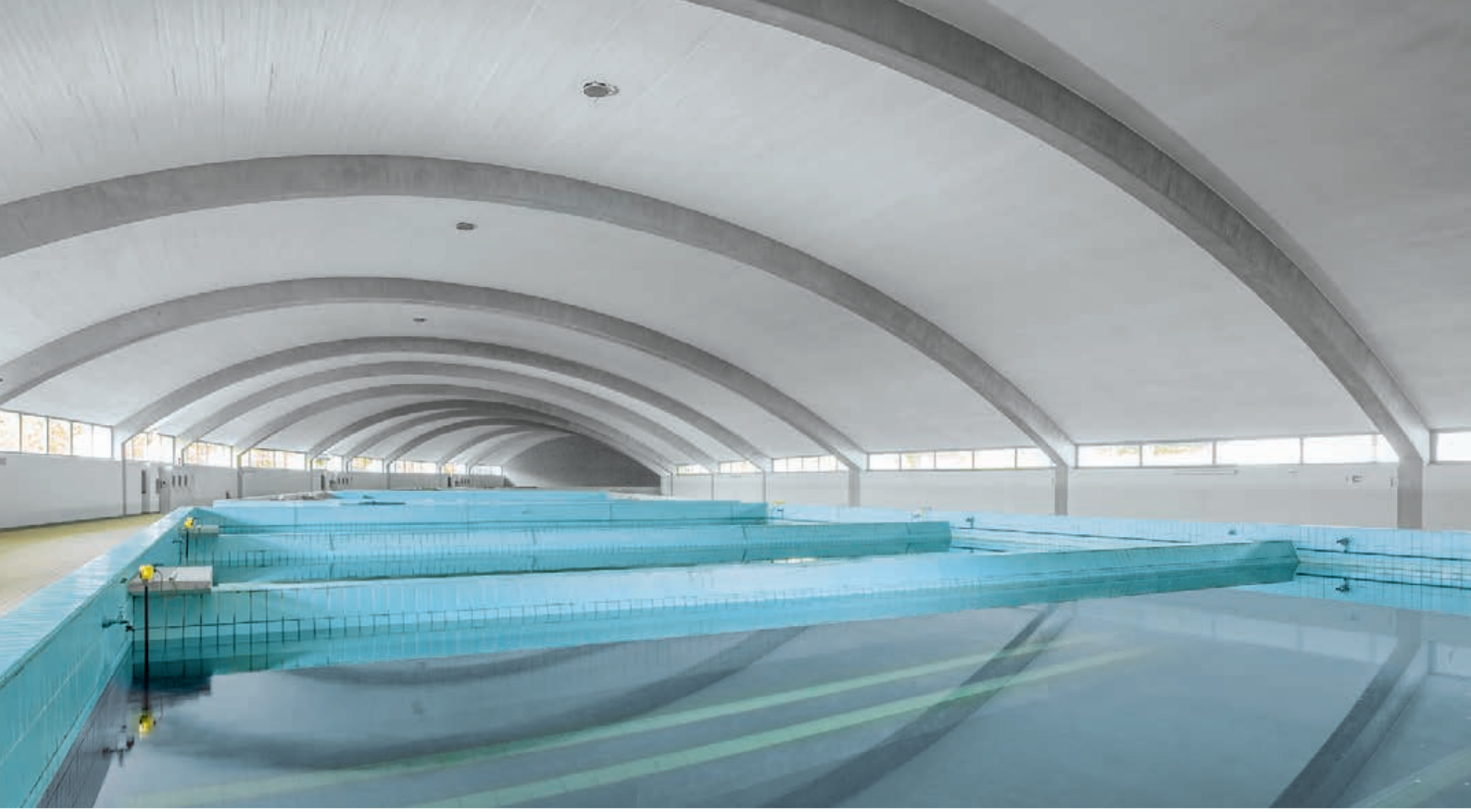
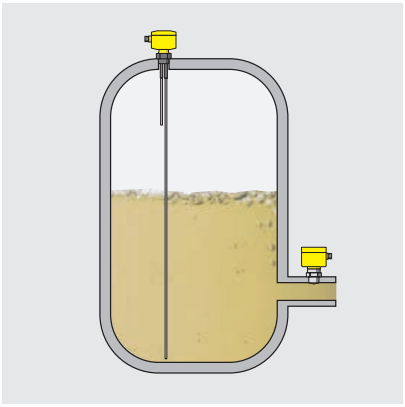


Point level I Conductive



Area of application

The conductive point level sensors of the VEGAKON series are used in conductive liquids as overfill protection, pump control or dry run protection in vessels and pipelines.

Measuring principle

When the electrodes of the sensor come in contact with a conductive liquid, a small alternating current begins to flow. The electronics responds by triggering a switching command.

Advantages

The simple, robust mechanical construction of the sensors ensures maintenance-free, cost-effective and reliable point level detection in all areas of industrial processes. The sensors, which can be installed in any position, provide a direct switching output. All measuring instruments offer the possibility of detecting at several switching points in a vessel. The VEGAKON sensors are designed as compact level switches, while the EL probes are designed to be used in combination with controllers of the VEGATOR series.

	VEGAKON 61	VEGAKON 66
		
Application	Conductive liquids	Conductive liquids
Version	Compact level switch with front-flush partly insulated electrode and one switching point, 316L, PTFE	Compact level switch with partly insulated rod electrodes and max. two switching points, 316Ti, PP
Probe length	–	0.12 … 4 m
Process fitting	Thread G1, 1 NPT, cone DN 25	Thread G1½
Process temperature	-40 … +150 °C	-40 … +100 °C
Process pressure	-1 … +25 bar (-100 … +2500 kPa)	-1 … +6 bar (-100 … +600 kPa)
Signal output	Relay, transistor output	Relay, transistor output
Approvals	–	–
Benefit	▪ Time and cost saving setup without adjustment with medium ▪ Optimal cleanability thanks to front-flush mounting ▪ Maintenance-free operation ensured by robust measuring probe that is not affected by buildup	▪ Reliable pump control through multiple-rod probe ▪ Minimal stockkeeping through exchangeable rod probes ▪ Simple and versatile with cut to length probes

Point level I Conductive

	EL 1	EL 3	EL 4
			
Application	Conductive liquids	Conductive liquids	Conductive liquids
Probe length	up to 4 m	up to 6 m	up to 4 m
Version	Partly insulated rod of 316Ti, PTFE with one switching point	Partly insulated rod of 316Ti, PTFE with max. four switching points	Partly insulated rod of 316Ti, PP with max. four switching points
Process fitting	Thread G½	Thread G1½	Thread G1½
Process temperature	-50 … +130 °C	-50 … +130 °C	-20 … +100 °C
Process pressure	-1 … +63 bar (-100 … +6300 kPa)	-1 … +63 bar (-100 … +6300 kPa)	-1 … +6 bar (-100 … +600 kPa)
Signal output	VEGATOR 131, VEGATOR 132	VEGATOR 132	VEGATOR 132
Approvals	ATEX, Overfill protection	ATEX, Overfill protection	–
Benefit	▪ Easy installation in confined spaces through small sensor dimensions ▪ Low costs for maintenance and repair thanks to robust design ▪ Simple and versatile with cut to length probes	▪ Simple setup and commissioning with minimal time and costs ▪ Maintenance-free thanks to robust construction ▪ Simple and versatile with cut to length probes	▪ Reliable pump control through multiple-rod probe ▪ Minimal stockkeeping through use of exchangeable rod probes ▪ Simple and versatile with cut to length probes

Controllers see page 60 – 65

EL 6	EL 8
	
Conductive liquids	Conductive liquids
up to 50 m	up to 3 m
Partly insulated cable of 316Ti, PP/ FEP with max. four switching points	Partly insulated rod of 316Ti, PE with one switching point
Thread G1½	Thread G½
-20 … +100 °C	-10 … +60 °C
-1 … +6 bar (-100 … +600 kPa)	-1 … +6 bar (-100 … +600 kPa)
VEGATOR 132	VEGATOR 131, VEGATOR 132
–	–
▪ Cost-effective pump control through multiple-cable probe ▪ Minimal stockkeeping through use of exchangeable cable probes ▪ Simple and versatile with cut to length probes	▪ Low-cost point level detection ▪ Easy installation in confined spaces through small sensor dimensions