

SEN-TRAN

Electric liquid level transmitters

The SEN-TRAN electric liquid level transmitter is suitable for the accurate and continuous measuring of the fluid depth (hydrostatic pressure) in tanks and basins operating at atmospheric pressure. The instrument installed in the controlling circle provides a DC signal proportional to the fluid level. The output signal can be used for making indicators, registers, data storages and telemechanical system operate. The casing of the transmitter protects the electronic and mechanical unit from atmospheric and mechanical effect.

Technical data

Type numbers

6 6 □ - 0 - □ □ □ - □ / F; K; M; KSZ; KmSZ; mSZN

Safety		Environmental temperature (°C)		Class of accuracy		Hydrostatic pressure (bar)		Output signal (mA)	
0	Standard	1	-20 ... +60	1	0,25	1	0 ... 0,25	0	4 ... 20
1	Explosion-proof	2	+5 ... +55	2	0,4	2	0 ... 0,4	1	0 ... 5
2	Intrinsic safe			3	0,6	3	0 ... 0,6	2	0 ... 20
						4	0 ... 1,0		
						5	0 ... 1,6		
						6	0 ... 2,5		
						7	0 ... 4		
						8	0 ... 6		
						9	0 ... 10		

Designs:

- F - other special employment, e.g. food industry etc.
 - K - DN 50 (2) flange design
 - M - threaded
 - KSZ - flange with sensor installed in a standard probe
 - KmSZ - flange, with sensor installed in a miniature probe
 - SZ - with sensor installed in a standard probe
 - mSZ - with sensor installed in a miniature probe
 - N - immersed design
- KSZ, KmSZ, mSZ types can be ordered with a max. 100m long cable

Supply voltage:	14...48 V DC
Zeroing:	±0,1 % (in case of 4...20 mA) +0,1 % (in case of 0...5 and 0...20 mA)
Input output characteristics:	linear
Temperature range:	-20...+60 °C; +5...+55 °C
Vibration resistance:	0...500 Hz; 0,5 g
Electrical stability:	500 V _{eff} , 50 Hz
Installing position:	vertical
Weight:	depends on the design

The probe design is suitable for measuring the liquid level in basins and wells. The probe contains the piezoresistive sensor isolated hermetically from the medium to be measured. The electric signal of the sensor is transmitted by a measuring- hanging (screened) wire to the electronic processor. The casing containing the electronics should be fixed on the transmitter stand formed at the proper point of the pump. The probe hangs on a relief cable clamp. The length of the wire can be max. 100 m, The transmitters with flange design can be fixed on the flange connecting to the tanks.

