

DESCRIPTION

ALZ 3710 is a small diameter submersible hydrostatic level transmitter for aggressive media. High quality ceramic piezoresistive sensor, robust Ø21 mm PP-HT, PVC or stainless steel housing and a hydrometric cable with the ventilation tube provide high performance in a slimmer form factor for a wide variety of industrial level measurement applications.



SPECIFICATIONS

Ranges: 6 mH₂O up to 200 mH₂O

Basic accuracy: ±0.5%

Probe: Ø21 mm, PP-HT, PVC, Stainless steel. Optional: Ø17 mm, Stainless steel

Output: 4...20 mA

Sensor: ceramic thick film

Media temperature: -25...+80 °C

APPLICATIONS

Confined spaces level measurement

Viscous media

Aggressive media (*)

Sewage, waste water, sludge

* please consult the manufacturer for particular media compatibility

Appearance, mounting kit contents and/or specifications are subject to change without prior notice. We are constantly working on further improvement of our products.
Delivery is subject to standard terms of delivery.
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TECHNICAL SPECIFICATIONS

MEASURING RANGES

Pressure range, bar	Level, mH ₂ O	Overpressure, bar	Pressure range, bar	Level, mH ₂ O	Overpressure, bar
0...0.6	6	2	0...6.0	60	10
0...1.0	10	2	0...10	100	20
0...1.6	16	4	0...16	160	40
0...2.5	25	4	0...20	200	40
0...4.0	40	10	-	-	-

PERFORMANCE

Accuracy, % of span*	≤ ±0.5
Temperature effect (% of span / 10 °C)	≤ ±0.4
Compensated range	0...+70 °C
Power supply effect	≤ ±0.05% of span / 10 V
Load resistance effect	≤ ±0.05% of span / kOhm
Long-term stability	≤ ±0.5% of span / year
Response time (10...90%)	≤ 10 ms

* Accuracy includes non-linearity, hysteresis and non-repeatability.

OPERATING CONDITIONS

Medium temperature (depends on housing)	PP-HT: -25...+80 °C; PVC: -20...+50 °C; Stainless steel: -25...+80 °C
Ambient temperature	PP-HT: -25...+80 °C; PVC: -20...+50 °C; Stainless steel: -25...+80 °C
Storage temperature	PP-HT: -25...+80 °C; PVC: -20...+50 °C; Stainless steel: -25...+80 °C
Vibration resistance	10 g RMS, 20–2000 Hz
Shock resistance	100 g / 11 ms
Service life	> 100 x 10 ⁶ cycles

MECHANICAL SPECIFICATIONS

Housing	PP-HT, PVC, Stainless steel
Seal	FKM; EPDM; NBR
Diaphragm	ceramics Al ₂ O ₃ 96 %
Cable external jacket	PVC (-5...+70 °C) , PUR, FEP
Ingress protection	IP69K

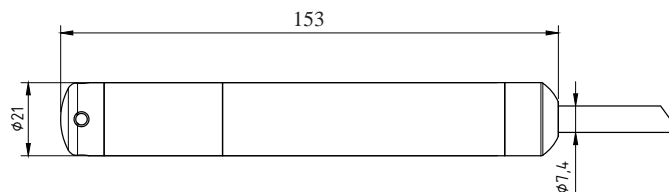
ELECTRICAL SPECIFICATIONS

Output signal	Power supply, U _s	Load resistance, R	Power consumption
4...20 mA / 2-wire	12...36 V	≤ [(U _s - 12 V) / 0.02 A] Ohm	< 26 mA

ELECTRICAL CONNECTIONS / PIN ASSIGNMENT

Circuits		Cable gland wires
2-wire	power +	white (red)
	power -	brown (blue)
	ground	yellow-green

DIMENSIONS (mm)



ORDERING CODE

ALZ 3710		-X	-XXXX	-X	-X	-XXXX	-X	-X	-X	-XX
UNIT OF MEASUREMENT										
	bar	B								
	kg/cm ²	S								
	mH ₂ O	W								
	kPa	H								
	Other (specify when ordering)	X								
UPPER RANGE LIMIT (URL)										
bar, kg/cm ²		mH ₂ O		kPa						
0.60	0600	6.0	6000	60	6001					
1.0	1000	10	1001	100	1002					
1.6	1600	16	1601	160	1602					
2.5	2500	25	2501	250	2502					
4.0	4000	40	4001	400	4002					
6.0	6000	60	6001	600	6002					
10	1001	100	1002	1000	1003					
16	1601	160	1602	Other	XXXX					
20	2001	200	2002							
Other	XXXX	Other	XXXX							
ACCURACY										
		0.50%		D						
		Other (specify when ordering)		X						
CABLE EXTERNAL JACKET										
		PVC		P						
		PUR		U						
		FEP		T						
		Other (specify when ordering)		X						
CABLE LENGTH										
		Any length in meters (e.g., 010M means 10 meters)			XXXM					
OUTPUT SIGNAL										
		4...20 mA / 2-wire (standard)			A					
		Other (specify when ordering)			X					
SEALS										
				FKM	F					
				NBR	N					
				EPDM	E					
				Other (specify when ordering)	X					
HOUSING MATERIAL										
				PVC	P					
				PP-HT	H					
				PVDF	F					
				Stainless steel 316L	A					
VERSION										
		Compact design, Ø17 mm only with stainless steel housing			1M					
		Standart			00					
		Other (specify when ordering)			XX					

Example: ALZ 3710-W-6000-D-P-010M-A-F-P-00

ACCESSORIES

		
Anchoring clamp for submersible transmitter	PZ 1024 Power supply unit	BZ 05 / BZ 10 Dry air junction box for submersible transmitters