



LMK 306

Stainless Steel Submersible Transmitter

- ▶ ceramic sensor
- ▶ **diameter: 17 mm**
- ▶ hydrostatic level measurement for example in 3/4" pipes (ground water measurement)
- ▶ nominal pressure ranges: 0 ... 6 mH₂O up to 0 ... 200 mH₂O
- ▶ accuracy: 0.25 % FSO BFSL (0.50 % FSO IEC 60770)
- ▶ suitable media: water and liquids of low viscosity, compatible with stainless steel 1.4571 and the sealing material



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Technical Data

Input pressure range										
Nominal pressure gauge [bar]	0.6	1	1.6	2.5	4	6	10	16	20	
Level [mH ₂ O]	6	10	16	25	40	60	100	160	200	
Permissible overpressure [bar]	2	2	4	4	10	10	20	40	40	

Output signal / Supply	
Standard	2-wire: 4 ... 20 mA / V _s = 12 ... 36 V _{DC}

Performance		
Accuracy	IEC 60770 ¹ : ≤ ± 0.5 % FSO	BFSL: ≤ ± 0.25 % FSO
Permissible load	$R_{max} = [(V_s - V_{s,min}) / 0.02] \Omega$	
Influence effects	supply: 0.05 % FSO / 10 V	load: 0.05 % FSO / kΩ
Response time	< 10 msec	

Thermal effects	
Thermal error for offset and span in compensated range	≤ ± 0.2 % FSO / 10 K -25 ... 70 °C

Electrical protection ²	
Short-circuit protection	permanent
Reverse polarity protection	no damage, but also no function
Electromagnetic protection	emission and immunity according to EN 61326

¹ accuracy according to IEC 60770 – limit point adjustment (non-linearity, hysteresis, repeatability)

² additional external overvoltage protection unit in terminal box KL 1 or KL 2 with atmospheric pressure reference available on request (please ask for data sheet)

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Permissible temperatures

Medium	-10 ... 70 °C
Storage	-25 ... 70 °C

Electrical connection

Cable with sheath material ³	PVC grey / PUR black / FEP black
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Materials

Housing	stainless steel 1.4571 (316Ti)
Seals	FKM
Diaphragm	ceramic Al ₂ O ₃ 96 %
Cable sheath	PVC / PUR / FEP

Miscellaneous

Connecting cables (by factory)	cable capacitance: signal line/shield also signal line/signal line: 160 pF/m cable inductance: signal line/shield also signal line/signal line: 1 µH/m
Current consumption	max. 25 mA
Weight	approx. 100 g (without cable)
Ingress protection	IP 68

Mounting accessories (not part of delivery)

Screw fitting, stainless steel

Mounting flange for transmitter fixing, stainless steel:

DN25 / PN40 (Ø115, 18 thick, 4 drill holes Ø14 at Ø85)

DN50 / PN16 (Ø165, 18 thick, 4 drill holes Ø18 at Ø125)

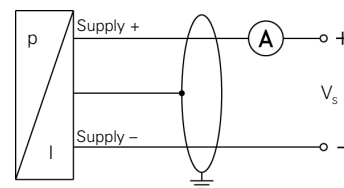
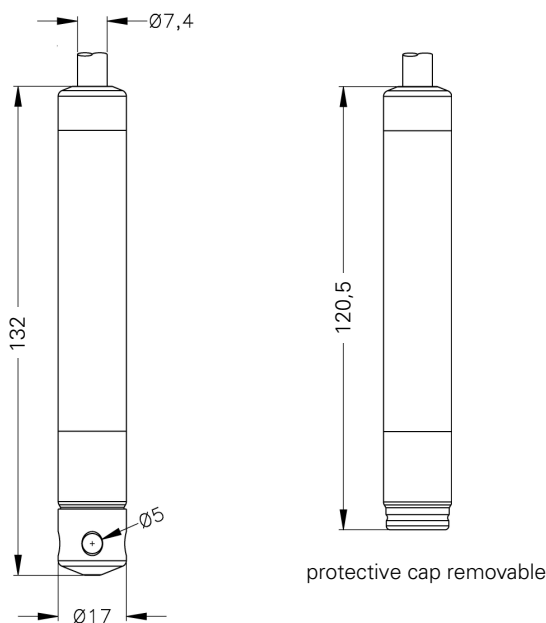
DN80 / PN16 (Ø200, 20 thick, 8 drill holes Ø18 at Ø160)

Terminal clamp, zinc plated or stainless steel

Pin configuration

Electrical connection	cable colours (DIN 47100)	
2-wire-system	Supply +	white
	Supply -	brown
	Ground	yellow / green (shield)

Dimensions (in mm) / Wiring diagram



³ cable with integrated air tube for atmospheric pressure reference

