

# **LMK 307**



# Stainless Steel Probe

Ceramic Sensor

accuracy according to IEC 60770: 0.5 % FSO

## **Nominal pressure**

from 0 ... 4 mH<sub>2</sub>O up to 0 ... 250 mH<sub>2</sub>O

# **Output signals**

2-wire: 4 ... 20 mA

3-wire: 0 ... 20 mA / 0 ... 10 V

others on request

# **Special characteristics**

- ▶ diameter 27 mm
- good linearity
- excellent long term stability
- easy handling

# **Optional versions**

- ► IS-version Ex ia = intrinsically safe for gas and dust
- SIL 2 (Safety Integrity Level) according to IEC 61508 / IEC 61511
- different kinds of cables and elastomers
- customer specific versionse. g. special pressure ranges

The level transmitter LMK 307 is designed for continuous level measurement in water or waste water applications. Basic element is a flush mounted ceramic sensor.

Suitable for all fluids which are compatible with media wetted materials. Different cable and elastomer materials can be offered according to the customer-specific operating conditions.

### Preferred areas of use are

# <u>Water</u>

drinking water systems ground water monitoring storm water systems





waste water treatment water recycling dumpsite



# Fuel and oil

fuel storage tank farm

biogas plants















Stainless Steel Probe

Input pressure range											
Nominal pressure gauge	[bar]	0.4	0.6	1	1.6	2.5	4	6	10	16	25
Level	[mH <sub>2</sub> O]	4	6	10	16	25	40	60	100	160	250
Overpressure	[bar]	2	2	2	4	4	10	10	20	40	40
Burst pressure ≥	[bar]	4	4	4	5	5	12	12	25	50	50
Max. ambient pressure (housing): 40 bar											

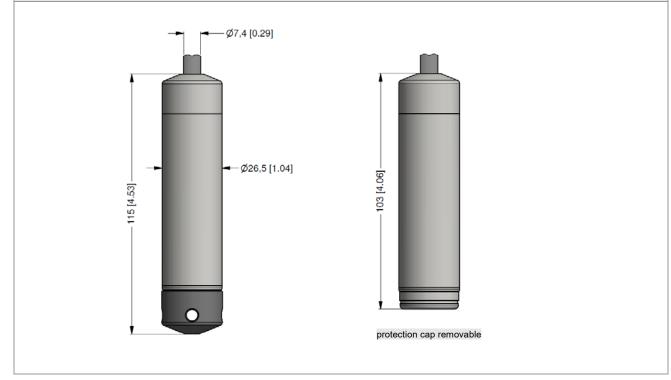
Output signal / Supply											
Standard	2-wire:	4 20 m	A / \	/s = 8	. 32 V <sub>DC</sub>		SIL-ve	rsion: V <sub>S</sub> =	14 2	28 V <sub>DC</sub>	
Option IS-version	2-wire:	4 20 m						rsion: V <sub>s</sub> =			
Options 3-wire	3-wire: 0 20 mA / V <sub>S</sub> = 14 30 V <sub>DC</sub>										
		0 10 V		/s = 14							
Performance	·										
Accuracy <sup>1</sup>	≤ ± 0.5 % l	SO									
Permissible load	current 2-v		= [(V <sub>s</sub> -	Vs min) /	0.02 A1.0	2.					
	current 3-v				0.027.1	-					
	voltage 3-v										
Influence effects							load: (	0.05 % FSC	) / kΩ		
Response time	≤ 10 msec	supply: 0.05 % FSO / 10 V load: 0.05 % FSO / kΩ									
<sup>1</sup> accuracy according to IEC 60770 – lim	nit point adjustn	nent (non-lir	earity, hy	ysteresis,	repeatabil	ity)					
Thermal effects (offset and span)		,									
Thermal error	≤ ± 0.2 % F	SO / 10 K	,				in com	pensated r	ange 0	70 °C	
Permissible temperatures									<u> </u>		
Permissible temperatures	medium: -1	0 70 °C	:				storag	e: <b>-</b> 25 70	) °C		
·	mcdiam	0 10 C	<u> </u>				Storag	C20 / C	,		
Electrical protection <sup>2</sup>	normana:-4										
Short-circuit protection	permanent		no fr : 1	lian							
Reverse polarity protection	no damage				-NI 64000	•					
Electromagnetic protection <sup>2</sup> additional external overvoltage protecti	emission a						reference	available as	regues	•	
	iori unii in term	nai box NL	1 OI KL 2	with alm	osprieric p	ressure	reiererice	available of	reques	1	
Electrical connection	D) (0 ( =	== ^= `		~							
Cable with sheath material <sup>3</sup>	PVC ( -5		grey								
	PUR (-10			Ø 7.4 r Ø 7.4 r							
	FEP ⁴ (-10		DIACK	Ø 7.4 I	HIII						
Panding radius	others on r		10 fol	d aabla (	diameter						
Bending radius	static insta	lation:		d cable o							
	static insta dynamic ap	lation: pplication:	20-fol	d cable o	diameter diameter						
<sup>3</sup> shielded cable with integrated ventilation	static insta dynamic ap	lation: pplication: ospheric pr	20-folessure re	d cable of	diameter	sses are	expected				
	static insta dynamic ap	lation: pplication: ospheric pr	20-folessure re	d cable of	diameter	sses are	expected				
<sup>3</sup> shielded cable with integrated ventilation of use freely suspended probes with Materials (media wetted)	static insta dynamic ap on tube for atm ith an FEP cab	lation: oplication: ospheric price if effects of	20-folessure reduce to hig	d cable of ference ghly charg	diameter	sses are	expected				
<sup>3</sup> shielded cable with integrated ventilation of the dot not use freely suspended probes with Materials (media wetted) Housing	static insta dynamic ap on tube for atm ith an FEP cab	lation: oplication: ospheric price if effects of	20-folessure reduce to hig	d cable of ference ghly charg	diameter	sses are	expected				
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Stainless Steel Probe

Pin	configuration	
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Electrical connection	cable colours (IEC 60757)
Supply +	WH (white)
Supply –	BN (brown)
Signal + (only 3-wire)	GN (green)
Shield	GNYE (green-vellow)

# Dimensions (mm / in)



# Accessories

Terminal clamp

Technical data						
Suitable for	all probes with cable Ø 5.5 10	all probes with cable Ø 5.5 10.5 mm				
Material of housing	standard: steel, zinc plated	standard: steel, zinc plated optionally: stainless steel 1.4301 (304)				
Material of clamping jaws and positioning clips	PA (fibre-glass reinforced)					
Dimensions (mm)	174 x 45 x 32	174 x 45 x 32				
Hook diameter	20 mm	20 mm				
Ordering type		Ordering code	Weight			
Terminal clamp, steel, zinc plat	ed	Z100528				
Terminal clamp, stainless steel	1 /301 /30/)	7100527	─_ approx. 160 g			

Z100527

LMK307\_E\_110123

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Terminal clamp, stainless steel 1.4301 (304)

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#### Ordering code LMK 307 LMK 307 Pressure 3 8 0 3 8 1 in mH<sub>2</sub>O Input [bar] 4 0 0 0 0 6 0 0 0 1 1 0 0 1 2 5 0 1 4 0 0 1 1 0 0 2 1 6 0 2 2 5 0 2 9 9 9 9 4 0.4 6 0.6 10 1.0 16 16 25 2.5 40 4.0 60 6.0 100 10 160 16 250 25 customer consult Housing stainless steel 1.4404 (316L) 9 customer consult Diaphragm ceramics Al<sub>2</sub>O<sub>3</sub> 96 % 2 9 customer consult Output 4 ... 20 mA / 2-wire 1 0 ... 20 mA / 3-wire $0\,\ldots\,10\,\text{V}\,/\,3\text{-wire}$ intrinsic safety $4\,\ldots\,20\,\text{mA}\,/\,2\text{-wire}$ 3 Ε SIL2 4 ... 20 mA / 2-wire 1S SIL2 with intrinsic safety ES 4 ... 20 mA / 2-wire customer 9 consult FKM 1 **EPDM** 3 9 customer consult Accuracy 0.5 % FSO 5 9 customer consult Electrical connection / cable length PVC-cable (grey, Ø 7.4 mm) 0 0 3 3 m 0 0 5 5 m 1 1 0 1 5 9 9 10 m 0 15 m 0 special length in m 9 PUR-cable (black, Ø 7.4 mm) <sup>1</sup> 0 0 3 3 m 2 2 2 2 2 0 0 5 5 m 10 m 0 1 0 15 m 0 1 5 special length in m 9 9 9 FEP-cable (black, Ø 7.4 mm) 1 0 0 3 10 m 0 1 0 special length in m 9 9 9 0 0 0 9 9 9 standard consult

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We reserve the right to make modifications to the specifications and materials.

<sup>&</sup>lt;sup>1</sup> shielded cable with integrated ventilation tube for atmospheric pressure reference