

# **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 versions e. 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



#### Water

drinking water systems ground water monitoring storm water systems





waste water treatment water recycling dumpsite



## Fuel and oil

fuel storage tank farm biogas plants













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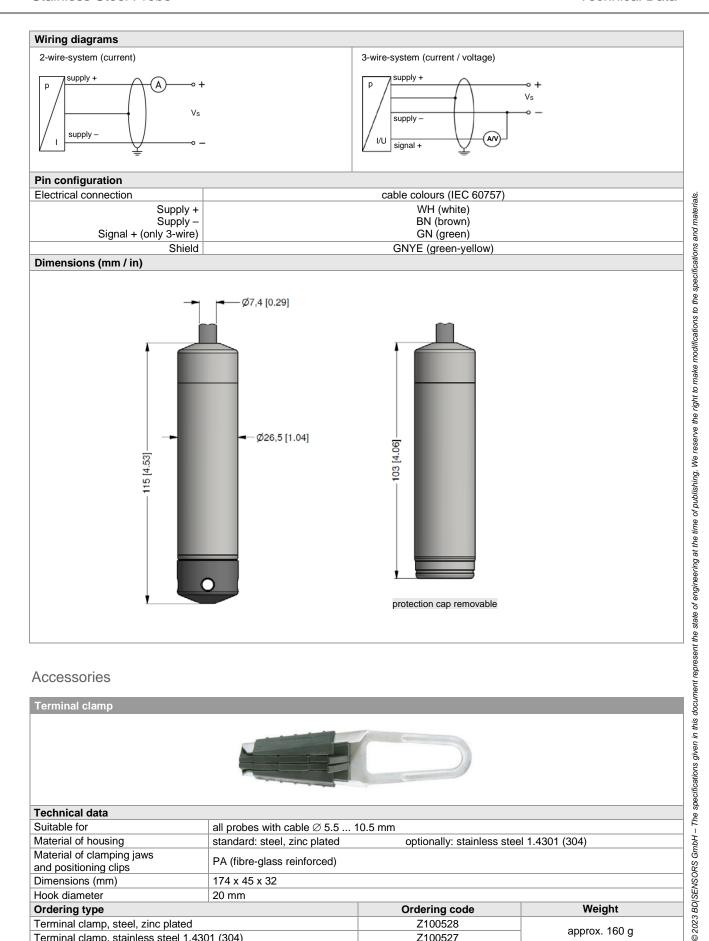




Stainless Steel Probe

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 mA / V <sub>S</sub> = 8 32 V <sub>DC</sub> SIL-version: V <sub>S</sub> = 14 28 V <sub>DC</sub>						
Option IS-version	2-wire: 4 20 mA / V <sub>S</sub> = 10 28 V <sub>DC</sub> SIL-version: V <sub>S</sub> = 14 28 V <sub>DC</sub>						
Options 3-wire	3-wire: 0 20 mA / V <sub>S</sub> = 14 30 V <sub>DC</sub>						
	$0 \dots 10 \text{ V}$ / $V_S = 14 \dots 30 \text{ V}_{DC}$						
Performance							
Accuracy 1	≤±0.5 % FSO						
Permissible load	current 2-wire: $R_{max} = [(V_S - V_{S min}) / 0.02 A] \Omega$						
	current 3-wire: $R_{max} = 500 \Omega$						
	voltage 3-wire: $R_{min} = 10 \text{ k }\Omega$						
Influence effects	supply: 0.05 % FSO / 10 V load: 0.05 % FSO / kΩ						
Response time	≤ 10 msec						
<sup>1</sup> accuracy according to IEC 60770 – lim	nit point adjustment (non-linearity, hysteresis, repeatability)						
Thermal effects (offset and span)							
Thermal error	≤ ± 0.2 % FSO / 10 K in compensated range 0 70 °C						
Permissible temperatures							
Permissible temperatures	medium: -10 70 °C storage: -25 70 °C						
Electrical protection <sup>2</sup>							
Short-circuit protection	permanent						
Reverse polarity protection	no damage, but also no function						
Electromagnetic protection	emission and immunity according to EN 61326						
	ion unit in terminal box KL 1 or KL 2 with atmospheric pressure reference available on request						
Electrical connection							
Cable with sheath material <sup>3</sup>	PVC ( -5 70 °C) grey Ø 7.4 mm						
Cable With Sheath material	PUR (-10 70 °C) black Ø 7.4 mm						
	FEP 4 (-10 70 °C) black Ø 7.4 mm						
	others on request						
Bending radius	others on request static installation: 10-fold cable diameter						
Bending radius							
<sup>3</sup> shielded cable with integrated ventilation	static installation: 10-fold cable diameter dynamic application: 20-fold cable diameter on tube for atmospheric pressure reference						
<sup>3</sup> shielded cable with integrated ventilatio <sup>4</sup> do not use freely suspended probes wi	static installation: 10-fold cable diameter dynamic application: 20-fold cable diameter						
<sup>3</sup> shielded cable with integrated ventilation <sup>4</sup> do not use freely suspended probes wi Materials (media wetted)	static installation: 10-fold cable diameter dynamic application: 20-fold cable diameter on tube for atmospheric pressure reference ith an FEP cable if effects due to highly charging processes are expected						
<sup>3</sup> shielded cable with integrated ventilation of use freely suspended probes wield the media wetted) Housing	static installation: 10-fold cable diameter dynamic application: 20-fold cable diameter on tube for atmospheric pressure reference ith an FEP cable if effects due to highly charging processes are expected stainless steel 1.4404 (316L)						
<sup>3</sup> shielded cable with integrated ventilation <sup>4</sup> do not use freely suspended probes wi Materials (media wetted)	static installation: 10-fold cable diameter dynamic application: 20-fold cable diameter on tube for atmospheric pressure reference ith an FEP cable if effects due to highly charging processes are expected  stainless steel 1.4404 (316L)  FKM						
<sup>3</sup> shielded cable with integrated ventilation of use freely suspended probes wield Materials (media wetted) Housing Seals	static installation: 10-fold cable diameter dynamic application: 20-fold cable diameter on tube for atmospheric pressure reference ith an FEP cable if effects due to highly charging processes are expected  stainless steel 1.4404 (316L)  FKM EPDM						
<sup>3</sup> shielded cable with integrated ventilation of use freely suspended probes wield Materials (media wetted) Housing Seals Diaphragm	static installation: 10-fold cable diameter dynamic application: 20-fold cable diameter on tube for atmospheric pressure reference ith an FEP cable if effects due to highly charging processes are expected  stainless steel 1.4404 (316L)  FKM EPDM ceramics Al <sub>2</sub> O <sub>3</sub> 96 %						
<sup>3</sup> shielded cable with integrated ventilation of use freely suspended probes with Materials (media wetted) Housing Seals Diaphragm Protection cap	static installation: 10-fold cable diameter dynamic application: 20-fold cable diameter on tube for atmospheric pressure reference ith an FEP cable if effects due to highly charging processes are expected  stainless steel 1.4404 (316L)  FKM EPDM  ceramics Al <sub>2</sub> O <sub>3</sub> 96 % POM-C						
<sup>3</sup> shielded cable with integrated ventilation <sup>4</sup> do not use freely suspended probes with Materials (media wetted) Housing Seals  Diaphragm Protection cap Cable sheath	static installation: 10-fold cable diameter dynamic application: 20-fold cable diameter on tube for atmospheric pressure reference ith an FEP cable if effects due to highly charging processes are expected  stainless steel 1.4404 (316L)  FKM EPDM  ceramics Al <sub>2</sub> O <sub>3</sub> 96 %  POM-C  PVC, PUR, FEP						
3 shielded cable with integrated ventilation of use freely suspended probes with Materials (media wetted) Housing Seals Diaphragm Protection cap Cable sheath Explosion protection (only for 4.)	static installation: 10-fold cable diameter dynamic application: 20-fold cable diameter on tube for atmospheric pressure reference ith an FEP cable if effects due to highly charging processes are expected  stainless steel 1.4404 (316L)  FKM EPDM ceramics Al <sub>2</sub> O <sub>3</sub> 96 % POM-C PVC, PUR, FEP 20 mA / 2-wire)						
3 shielded cable with integrated ventilation 4 do not use freely suspended probes with Materials (media wetted) Housing Seals Diaphragm Protection cap Cable sheath Explosion protection (only for 4 and Approvals	static installation: 10-fold cable diameter dynamic application: 20-fold cable diameter on tube for atmospheric pressure reference ith an FEP cable if effects due to highly charging processes are expected  stainless steel 1.4404 (316L)  FKM EPDM ceramics Al <sub>2</sub> O <sub>3</sub> 96 % POM-C PVC, PUR, FEP 20 mA / 2-wire)  IBEXU 10 ATEX 1068 X / IECEX IBE 12.0027X						
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3 shielded cable with integrated ventilation 4 do not use freely suspended probes with Materials (media wetted) Housing Seals Diaphragm Protection cap Cable sheath Explosion protection (only for 4.) Approvals DX19-LMK 307 Safety technical maximum values Permissible temperatures for	static installation: 10-fold cable diameter dynamic application: 20-fold cable diameter on tube for atmospheric pressure reference ith an FEP cable if effects due to highly charging processes are expected						
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3 shielded cable with integrated ventilation of use freely suspended probes with Materials (media wetted) Housing Seals Diaphragm Protection cap Cable sheath Explosion protection (only for 4 and Approvals DX19-LMK 307 Safety technical maximum values Permissible temperatures for environment Connecting cables	static installation: 10-fold cable diameter dynamic application: 20-fold cable diameter on tube for atmospheric pressure reference ith an FEP cable if effects due to highly charging processes are expected  stainless steel 1.4404 (316L)  FKM EPDM ceramics Al₂O₃ 96 %  POM-C PVC, PUR, FEP 20 mA / 2-wire)  IBEXU 10 ATEX 1068 X / IECEx IBE 12.0027X zone 0: II 1G Ex ia IIC T4 Ga zone 20: II 1D Ex ia IIIC T135 °C Da  U₁ = 28 V, I₁ = 93 mA, P₁ = 660 mW, C₁ ≈ 0nF, L₁ ≈ 0 μH, the supply connections have an inner capacity of max. 27 nF to the housing in zone 0: -20 60 °C with patm 0.8 bar up to 1.1 bar in zone 1: -40/-20 70 °C cable capacitance: signal line/shield also signal line/signal line: 160 pF/m						
3 shielded cable with integrated ventilation of use freely suspended probes with Materials (media wetted) Housing Seals Diaphragm Protection cap Cable sheath Explosion protection (only for 4 Approvals DX19-LMK 307 Safety technical maximum values Permissible temperatures for environment Connecting cables (by factory)	static installation: 10-fold cable diameter dynamic application: 20-fold cable diameter on tube for atmospheric pressure reference ith an FEP cable if effects due to highly charging processes are expected						
3 shielded cable with integrated ventilation of use freely suspended probes with Materials (media wetted) Housing Seals Diaphragm Protection cap Cable sheath Explosion protection (only for 4 Approvals DX19-LMK 307 Safety technical maximum values Permissible temperatures for environment Connecting cables (by factory) Miscellaneous	static installation: 10-fold cable diameter dynamic application: 20-fold cable diameter on tube for atmospheric pressure reference ith an FEP cable if effects due to highly charging processes are expected  stainless steel 1.4404 (316L)  FKM EPDM ceramics Al <sub>2</sub> O <sub>3</sub> 96 % POM-C PVC, PUR, FEP 20 mA / 2-wire)  IBEXU 10 ATEX 1068 X / IECEX IBE 12.0027X zone 0: II 1G Ex ia IIC T4 Ga zone 20: II 1D Ex ia IIIC T135 °C Da  U <sub>i</sub> = 28 V, I <sub>i</sub> = 93 mA, P <sub>i</sub> = 660 mW, C <sub>i</sub> ≈ 0nF, L <sub>i</sub> ≈ 0 μH, the supply connections have an inner capacity of max. 27 nF to the housing in zone 0: -20 60 °C with p <sub>atm</sub> 0.8 bar up to 1.1 bar in zone 1: -40/-20 70 °C cable capacitance: signal line/shield also signal line/signal line: 1 μH/m						
3 shielded cable with integrated ventilation of use freely suspended probes with Materials (media wetted) Housing Seals Diaphragm Protection cap Cable sheath Explosion protection (only for 4 and Approvals DX19-LMK 307 Safety technical maximum values Permissible temperatures for environment Connecting cables (by factory) Miscellaneous Option SIL 2 version 5	static installation: 10-fold cable diameter dynamic application: 20-fold cable diameter on tube for atmospheric pressure reference ith an FEP cable if effects due to highly charging processes are expected  stainless steel 1.4404 (316L)  FKM EPDM ceramics Al <sub>2</sub> O <sub>3</sub> 96 %  POM-C PVC, PUR, FEP 20 mA / 2-wire)  IBEXU 10 ATEX 1068 X / IECEX IBE 12.0027X zone 0: II 1G Ex ia IIC T4 Ga zone 20: II 1D Ex ia IIIC T135 °C Da  U <sub>i</sub> = 28 V, I <sub>i</sub> = 93 mA, P <sub>i</sub> = 660 mW, C <sub>i</sub> ≈ 0nF, L <sub>i</sub> ≈ 0 μH, the supply connections have an inner capacity of max. 27 nF to the housing in zone 0: -20 60 °C with p <sub>atm</sub> 0.8 bar up to 1.1 bar in zone 1: -40/-20 70 °C cable capacitance: signal line/shield also signal line/signal line: 1 μH/m  according to IEC 61508 / IEC 61511						
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3 shielded cable with integrated ventilation of use freely suspended probes with Materials (media wetted) Housing Seals Diaphragm Protection cap Cable sheath Explosion protection (only for 4. Approvals DX19-LMK 307 Safety technical maximum values Permissible temperatures for environment Connecting cables (by factory) Miscellaneous Option SIL 2 version 5 Current consumption	static installation: dynamic application: 20-fold cable diameter dynamic application: 20-fold cable diameter on tube for atmospheric pressure reference ith an FEP cable if effects due to highly charging processes are expected  stainless steel 1.4404 (316L)  FKM  EPDM  ceramics Al₂O₃ 96 %  POM-C  PVC, PUR, FEP  20 mA / 2-wire)  IBEXU 10 ATEX 1068 X / IECEX IBE 12.0027X  zone 0: II 1G Ex ia IIC T4 Ga  zone 20: II 1D Ex ia IIIC T135 °C Da  U₁ = 28 V, I₁ = 93 mA, P₁ = 660 mW, C₁ ≈ 0nF, L₁ ≈ 0 μH, the supply connections have an inner capacity of max. 27 nF to the housing in zone 0: -20 60 °C with patm 0.8 bar up to 1.1 bar in zone 1: -40/-20 70 °C  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  according to IEC 61508 / IEC 61511  signal output current: max. 25 mA signal output voltage: max. 7 mA approx. 250 g (without cable)						
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3 shielded cable with integrated ventilation of use freely suspended probes with Materials (media wetted) Housing Seals Diaphragm Protection cap Cable sheath Explosion protection (only for 4. Approvals DX19-LMK 307 Safety technical maximum values Permissible temperatures for environment Connecting cables (by factory) Miscellaneous Option SIL 2 version 5 Current consumption	static installation: dynamic application: 20-fold cable diameter dynamic application: 20-fold cable diameter on tube for atmospheric pressure reference ith an FEP cable if effects due to highly charging processes are expected  stainless steel 1.4404 (316L)  FKM  EPDM  ceramics Al₂O₃ 96 %  POM-C  PVC, PUR, FEP  20 mA / 2-wire)  IBEXU 10 ATEX 1068 X / IECEX IBE 12.0027X  zone 0: II 1G Ex ia IIC T4 Ga  zone 20: II 1D Ex ia IIIC T135 °C Da  U₁ = 28 V, I₁ = 93 mA, P₁ = 660 mW, C₁ ≈ 0nF, L₁ ≈ 0 μH, the supply connections have an inner capacity of max. 27 nF to the housing in zone 0: -20 60 °C with patm 0.8 bar up to 1.1 bar in zone 1: -40/-20 70 °C  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  according to IEC 61508 / IEC 61511  signal output current: max. 25 mA signal output voltage: max. 7 mA approx. 250 g (without cable)						



#### Accessories

Terminal clamp

Technical data							
Suitable for	uitable for all probes with cable Ø 5.5 10.5 mm						
Material of housing	'						
Material of clamping jaws and positioning clips  PA (fibre-glass reinforced)							
Dimensions (mm)	174 x 45 x 32						
Hook diameter	20 mm						
Ordering type		Ordering code	Weight				
Terminal clamp, steel, zinc plat	ed	Z100528	272721 460 5				
Terminal clamp, stainless steel	1 //301 //30//)	7100527	approx. 160 g				

Z100527

LMK307\_E\_110123 pressure measurement

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Terminal clamp, stainless steel 1.4301 (304)



#### Ordering code LMK 307 LMK 307 Pressure 3 8 0 3 8 1 in mH<sub>2</sub>O Input 4 0 0 0 0 6 0 0 0 1 1 0 0 1 1 6 0 1 4 0 0 1 6 0 0 1 1 0 0 2 1 6 0 2 2 5 0 2 9 9 9 9 0.4 4 6 0.6 10 1.0 16 16 25 2.5 40 40 60 6.0 100 10 160 16 250 25 customer consult Housing stainless steel 1.4404 (316L) customer 9 consult Diaphragm ceramics Al<sub>2</sub>O<sub>3</sub> 96 % customer 9 consult Output 4 ... 20 mA / 2-wire 1 0 ... 20 mA / 3-wire 2 0 ... 10 V / 3-wire 3 intrinsic safety 4 ... 20 mA / 2-wire SIL2 4 ... 20 mA / 2-wire Ε 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 customer consult Electrical connection / cable length PVC-cable (grey, Ø 7.4 mm) 1 0 0 3 0 0 5 0 3 m 5 m 0 1 0 0 1 5 9 9 9 10 m 15 m special length in m PUR-cable (black, Ø 7.4 mm) 1 0 3 m 2 0 3 2 5 m 0 0 5 10 m 0 0 2 15 m 0 1 5 special length in m 9 FEP-cable (black, Ø 7.4 mm) 1 3 0 0 5 10 m 0 1 0 special length in m 9 9 9 Special version 0 0 0 9 9 9 standard customer consult

01.04.2022

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