

# **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



### Sewage

waste water treatment water recycling dumpsite



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## Fuel and oil

fuel storage tank farm biogas plants













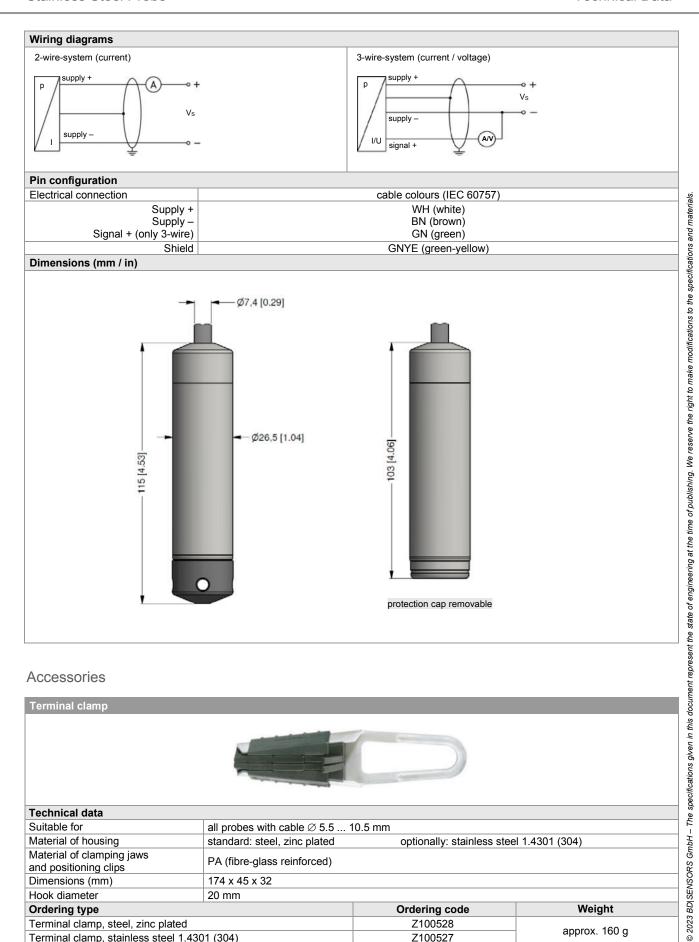


Stainless Steel Probe

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 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>					
	$0 \dots 10 \text{ V}$ / $V_S = 14 \dots 30 V_{DC}$					
Performance						
Accuracy <sup>1</sup>	≤±0.5 % FSO					
Permissible load	current 2-wire: $R_{max} = [(V_S - V_{S min}) / 0.02 A] \Omega$					
	current 3-wire: $R_{\text{max}} = 500 \Omega$					
	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					
	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>	mediam10 70 O	3torage: -20 70 O				
•	normanant					
Short-circuit protection	permanent					
Reverse polarity protection	no damage, but also no function					
Electromagnetic protection	emission and immunity according to EN 61326	vivo votevenes available en verviest				
	n unit in terminal box KL 1 or KL 2 with atmospheric press	sure reterence available on request				
Electrical connection						
Cable with sheath material <sup>3</sup>	PVC (-5 70 °C) grey Ø 7.4 mm					
	PUR (-10 70 °C) black Ø 7.4 mm					
	FEP 4 (-10 70 °C) black Ø 7.4 mm					
Dan din o andi o	others on request					
Bending radius	static installation: 10-fold cable diameter					
_	static installation: 10-fold cable diameter dynamic application: 20-fold cable diameter					
<sup>3</sup> shielded cable with integrated ventilation	static installation: 10-fold cable diameter dynamic application: 20-fold cable diameter tube for atmospheric pressure reference	are expected				
<sup>3</sup> shielded cable with integrated ventilation <sup>4</sup> do not use freely suspended probes wi	static installation: 10-fold cable diameter dynamic application: 20-fold cable diameter	are expected				
<sup>3</sup> shielded cable with integrated ventilation <sup>4</sup> do not use freely suspended probes with Materials (media wetted)	static installation: 10-fold cable diameter dynamic application: 20-fold cable diameter n tube for atmospheric pressure reference n an FEP cable if effects due to highly charging processes	are expected				
<sup>3</sup> shielded cable with integrated ventilation <sup>4</sup> do not use freely suspended probes with Materials (media wetted) Housing	static installation: 10-fold cable diameter dynamic application: 20-fold cable diameter nube for atmospheric pressure reference in an FEP cable if effects due to highly charging processes stainless steel 1.4404 (316L)	are expected				
<sup>3</sup> shielded cable with integrated ventilation <sup>4</sup> do not use freely suspended probes with Materials (media wetted)	static installation: 10-fold cable diameter dynamic application: 20-fold cable diameter tube for atmospheric pressure reference in an FEP cable if effects due to highly charging processes stainless steel 1.4404 (316L)	are expected				
<sup>3</sup> shielded cable with integrated ventilation <sup>4</sup> do not use freely suspended probes with Materials (media wetted) Housing Seals	static installation: 10-fold cable diameter dynamic application: 20-fold cable diameter number for atmospheric pressure reference in an FEP cable if effects due to highly charging processes stainless steel 1.4404 (316L)  FKM EPDM	are expected				
<sup>3</sup> shielded cable with integrated ventilation <sup>4</sup> do not use freely suspended probes with Materials (media wetted) Housing Seals Diaphragm	static installation: 10-fold cable diameter dynamic application: 20-fold cable diameter tube for atmospheric pressure reference in an FEP cable if effects due to highly charging processes stainless steel 1.4404 (316L)  FKM EPDM ceramics Al <sub>2</sub> O <sub>3</sub> 96 %	are expected				
<sup>3</sup> shielded cable with integrated ventilation do not 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 tube for atmospheric pressure reference in an FEP cable if effects due to highly charging processes stainless steel 1.4404 (316L)  FKM EPDM ceramics Al <sub>2</sub> O <sub>3</sub> 96 % POM-C	are expected				
<sup>3</sup> shielded cable with integrated ventilation of the document	static installation: 10-fold cable diameter dynamic application: 20-fold cable diameter tube for atmospheric pressure reference in an FEP cable if effects due to highly charging processes stainless steel 1.4404 (316L)  FKM EPDM ceramics Al <sub>2</sub> O <sub>3</sub> 96 % POM-C PVC, PUR, FEP	are expected				
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<sup>3</sup> shielded cable with integrated ventilation of the document	static installation: 10-fold cable diameter dynamic application: 20-fold cable diameter tube for atmospheric pressure reference in an FEP cable if effects due to highly charging processes 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	are expected				
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<sup>3</sup> shielded cable with integrated ventilation of the document	static installation: 10-fold cable diameter dynamic application: 20-fold cable diameter tube for atmospheric pressure reference in an FEP cable if effects due to highly charging processes 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> ≈ 10.000 cable diameter definition: 20-fold	0 μΗ,				
3 shielded cable with integrated ventilation 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	static installation: 10-fold cable diameter dynamic application: 20-fold cable diameter in tube for atmospheric pressure reference in an FEP cable if effects due to highly charging processes stainless steel 1.4404 (316L)  FKM EPDM ceramics $Al_2O_3$ 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 IIIC 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 the supply connections have an inner capacity of the supply capacity of the sup	0 μH, max. 27 nF to the housing				
<sup>3</sup> shielded cable with integrated ventilation of the documents of the doc	static installation: 10-fold cable diameter dynamic application: 20-fold cable diameter in tube for atmospheric pressure reference in an FEP cable if effects due to highly charging processes stainless steel 1.4404 (316L)  FKM EPDM ceramics $Al_2O_3$ 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 IIIC T4 Ga zone 20: II 1D Ex ia IIIC T4 Ga Zone 20: II 1D Ex ia IIIC T45 °C Da  U <sub>1</sub> = 28 V, I <sub>1</sub> = 93 mA, P <sub>1</sub> = 660 mW, C <sub>1</sub> ≈ 0nF, L <sub>1</sub> ≈ 0 the supply connections have an inner capacity of in zone 0: -20 60 °C with p <sub>atm</sub> 0.8 bar up to 1.1	0 μH, max. 27 nF to the housing				
³ shielded cable with integrated ventilation ¹ do not 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	static installation: 10-fold cable diameter dynamic application: 20-fold cable diameter in tube for atmospheric pressure reference in an FEP cable if effects due to highly charging processes stainless steel 1.4404 (316L)  FKM EPDM ceramics $Al_2O_3$ 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 the supply connections have an inner capacity of in zone 0: -20 60 °C with p <sub>atm</sub> 0.8 bar up to 1.1 in zone 1: -40/-20 70 °C	0 μH, max. 27 nF to the housing bar				
<sup>3</sup> shielded cable with integrated ventilation of the documents of the doc	static installation: 10-fold cable diameter dynamic application: 20-fold cable diameter in tube for atmospheric pressure reference in an FEP cable if effects due to highly charging processes stainless steel 1.4404 (316L)  FKM EPDM ceramics $Al_2O_3$ 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 IIIC T4 Ga zone 20: II 1D Ex ia IIIC T4 Ga Zone 20: II 1D Ex ia IIIC T45 °C Da  U <sub>1</sub> = 28 V, I <sub>1</sub> = 93 mA, P <sub>1</sub> = 660 mW, C <sub>1</sub> ≈ 0nF, L <sub>1</sub> ≈ 0 the supply connections have an inner capacity of in zone 0: -20 60 °C with p <sub>atm</sub> 0.8 bar up to 1.1	0 μH, max. 27 nF to the housing bar ine/signal line: 160 pF/m				
³ shielded cable with integrated ventilation ¹ do not 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)	static installation: 10-fold cable diameter dynamic application: 20-fold cable diameter in tube for atmospheric pressure reference in an FEP cable if effects due to highly charging processes stainless steel 1.4404 (316L)  FKM EPDM ceramics $Al_2O_3$ 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 the supply connections have an inner capacity of in zone 0: -20 60 °C with p <sub>atm</sub> 0.8 bar up to 1.1 in zone 1: -40/-20 70 °C cable capacitance: signal line/shield also signal line	0 μH, max. 27 nF to the housing bar ine/signal line: 160 pF/m				
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³ shielded cable with integrated ventilation ¹ do not 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 in tube for atmospheric pressure reference in an FEP cable if effects due to highly charging processes stainless steel 1.4404 (316L)  FKM EPDM ceramics $Al_2O_3$ 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>1</sub> = 28 V, I <sub>1</sub> = 93 mA, P <sub>1</sub> = 660 mW, C <sub>1</sub> ≈ 0nF, L <sub>1</sub> ≈ 0 the supply connections have an inner capacity of in zone 0: -20 60 °C with patm 0.8 bar up to 1.1 in zone 1: -40/-20 70 °C cable capacitance: signal line/shield also signal lin	0 μH, max. 27 nF to the housing bar ine/signal line: 160 pF/m				
³ shielded cable with integrated ventilation ¹ do not 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	static installation: 10-fold cable diameter dynamic application: 20-fold cable diameter to tube for atmospheric pressure reference in an FEP cable if effects due to highly charging processes 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 the supply connections have an inner capacity of in zone 0: -20 60 °C with patm 0.8 bar up to 1.1 in zone 1: -40/-20 70 °C cable capacitance: signal line/shield also signal line/shield toutput current: max. 25 mA	0 μH, max. 27 nF to the housing bar ine/signal line: 160 pF/m				
³ shielded cable with integrated ventilation ¹ 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 environment Connecting cables (by factory) Miscellaneous Option SIL 2 version 5 Current consumption	static installation: 10-fold cable diameter dynamic application: 20-fold cable diameter to tube for atmospheric pressure reference in an FEP cable if effects due to highly charging processes 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 ≈ 10 the supply connections have an inner capacity of 10 in zone 0: -20 60 °C with patm 0.8 bar up to 1.1 in zone 1: -40/-20 70 °C cable capacitance: signal line/shield also signal line/shield also signal line/shield also signal line/shield to signal line/shield also signal line/shield to the signal output current: max. 25 mA signal output voltage: max. 7 mA	0 μH, max. 27 nF to the housing bar ine/signal line: 160 pF/m				
³ shielded cable with integrated ventilation ¹ do not 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 Current consumption	static installation: 10-fold cable diameter dynamic application: 20-fold cable diameter in tube for atmospheric pressure reference in an FEP cable if effects due to highly charging processes 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 ≈ 01 in zone 0: -20 60 °C with patm 0.8 bar up to 1.1 in zone 1: -40/-20 70 °C cable capacitance: signal line/shield also signal line/shield also signal line/shield also signal line/shield table inductance: signal line/shield also signal line/shield table inductance: max. 25 mA signal output voltage: max. 7 mA approx. 250 g (without cable)	0 μH, max. 27 nF to the housing bar ine/signal line: 160 pF/m				
³ shielded cable with integrated ventilation ¹ do not 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 Current consumption  Weight Ingress protection	static installation: 10-fold cable diameter dynamic application: 20-fold cable diameter to tube for atmospheric pressure reference in an FEP cable if effects due to highly charging processes 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 ≈ 10 the supply connections have an inner capacity of in zone 0: -20 60 °C with patm 0.8 bar up to 1.1 in zone 1: -40/-20 70 °C cable capacitance: signal line/shield also signal line/shield utput current: max. 25 mA signal output voltage: max. 7 mA approx. 250 g (without cable)  IP 68	0 μH, max. 27 nF to the housing bar ine/signal line: 160 pF/m				
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#### Stainless Steel Probe



#### Accessories

Terminal clamp

Technical data						
Suitable for	all probes with cable Ø 5.5 1	all probes with cable Ø 5.5 10.5 mm				
Material of housing	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					
Ordering type		Ordering code	Weight			
Terminal clamp, steel, zinc plate	d	Z100528	approx 160 a			
Terminal clamp, stainless steel 1.4301 (304)		Z100527	approx. 160 g			

LMK307\_E\_110123 pressure measurement

+49 (0) 92 35 / 98 11- 0 +49 (0) 92 35 / 98 11- 11 Tel.: Fax:



#### 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 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 % FSQ 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

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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