



# LMP 307

## **Stainless Steel Probe**

Stainless Steel Sensor

accuracy according to IEC 60770: standard: 0.35 % FSO options: 0.25 % / 0.1 % FSO

## Nominal pressure

from 0 ... 1 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 26.5 mm
- small thermal effect
- high accuracy
- good long term stability

### **Optional versions**

- **IS-version** Ex ia = intrinsically safe for gas and dust
- SIL 2 (Safety Integrity Level)
- drinking water certificate according to DVGW and KTW
- different kinds of cables and elastomers
- petrol-version welded pressure sensor and housing
- mounting with stainless steel pipe

The stainless steel probe LMP 307 is designed for continuous level measurement in water and clean or lightly polluted fluids.

Basic element is a high quality stainless steel sensor with high requirements for exact measurement with good long term stability.

#### Preferred areas of use are



Water / filtrated sewage drinking water systems ground water level measurement



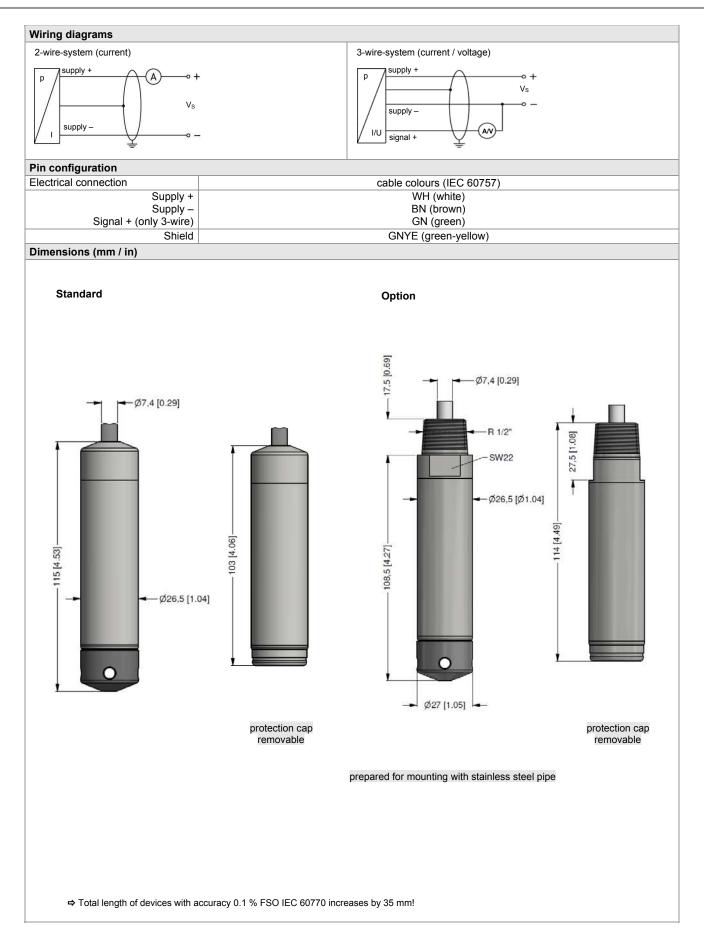
rain spillway basins pump and booster stations level measurement in containers water treatment plants water recycling



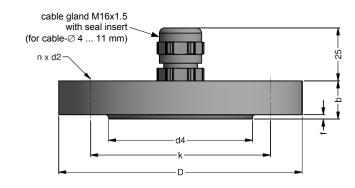
Fuel and oil fuel storage tank farms



													1	
Nominal pressure gauge		0.1	0.16	0.25	0.4	0.6	1	1.6	2.5	4	6	10	16	25
Level	[mH₂O]	1	1.6	2.5	4	6	10	16	25	40	60	100	160	250
Overpressure	[bar]	0.5	1	1	2	5	5	10	10	20	40	40	80	80
Burst pressure ≥	[bar]	1.5	1.5	1.5	3	7.5	7.5	15	15	25	50	50	120	120
Output signal / Supply														
Standard		2-wire:	4.	. 20 mA	/ V <sub>s</sub> =	8 3	2 V <sub>DC</sub>		S	IL-versi	on: V <sub>s</sub> =	14 2	8 V <sub>DC</sub>	
Option IS-version		2-wire:				10 2			S	IL-versi	on: V <sub>s</sub> =	14 2	8 V <sub>DC</sub>	
Options 3-wire		3-wire:	0.	. 20 mA	$\sqrt{V_s} =$	14 3						: 14 3		
Performance		J												
Accuracy <sup>1</sup>		standa	rd: no	minal p	ressure	< 0.4 ba	ar:	≤±0.	5 % FSO					
···· <b>,</b>						≥ 0.4 ba		≤ ± 0.	35 % FSC	)				
		option				≥ 0.4 ba	ar:		25 % FSC	)				
<u> </u>		option				ssures:			1 % FSO					
Permissible load						<sub>S min</sub> ) / 0	.02 A] 🤉		0		0.1-0			
Influence offecto		1		$R_{max} =$					e 3-wire:					
Influence effects				FSO /				load:	0.05 % FS	50 / κΩ				
Long term stability		1			at refere	nce con	aitions	2	. < 0					
Response time	60770 1:	-	≤ 10 m		arity bu	tercoic	ancotot-		e: ≤ 3 mse	30				
<sup>1</sup> accuracy according to IEC			usiment	(non-line	any, nys	neresis, r	ереатар	шу)						
Thermal effects (Offset		)			0.40			1				10		
Nominal pressure p <sub>N</sub>	[bar]				< 0.40						<u>&gt; 0.4</u>			
Tolerance band	[% FSO]				≤±1			0 7	0		≤ ± 0.	./ 5		
in compensated range	[°C]	]						0 7	U					
Permissible temperatu				70.00				-1	07	70.00				
Permissible temperature	S	mediur	n: -10.	70 °C				storag	je: -25	70 °C				
Electrical protection <sup>2</sup>		1												
Short-circuit protection		permar												
Reverse polarity protecti			-		o functio			-						
Electromagnetic compat						ing to E								
<sup>2</sup> additional external overvol Electrical connection	itage protecti	on unit in	terminai	DOX KL 1	or KL 2	with atmo	ospneric	pressur	e reterence	e avallab	ie on req	uest		
Cable with sheath mater	ial 3	PVC	( =	70 % ()	grey	074								
	Idi					Ø 7.4 r Ø 7.4 r								
						Ø 7.4 r								
						Ø 7.4 r		(witho	ut / with c	Irinking	water co	ertificate	)	
Bending radius						e diamet	er	dynan	nic applic	ation: 2	D-fold ca	ble dian	neter	
<sup>3</sup> shielded cable with integra										,				
<sup>4</sup> do not use freely suspende Materials (media wette		in an FEF	cable if	errects a	ue to nigi	niy chargi	ng proce	esses ar	e expected					
Housing	uj	stainlo												
Seals			no otool	1 1 1 0 1	(3161)									
						nkina w	ator cor	tificato	). welded	voreion	5	other	s on rec	ulost
		FKM; E	PDM (v	vithout /	with dri	nking wa	ater cer	tificate	); welded	version	5	other	rs on rec	luest
Diaphragm		FKM; E stainles	PDM (v ss steel		with dri	nking wa	ater cer	tificate	); welded	version	5	other	rs on rec	luest
Diaphragm Protection cap		FKM; E stainles POM-C	PDM (v ss steel ;	vithout / 1.4435	with dri (316L)	nking wa	ater cer	tificate	); welded	version	5	other	rs on rec	luest
Diaphragm Protection cap Cable sheath	- version and	FKM; E stainles POM-C PVC, F	PDM (v ss steel ; vUR, FE	vithout / 1.4435 P, TPE·	with dri (316L) ·U			tificate	); welded	version	5	other	rs on rec	luest
Diaphragm Protection cap Cable sheath <sup>5</sup> not in combination with SII		FKM; E stainles POM-C PVC, F I only in c	PDM (v ss steel ; uR, FE	vithout / 1.4435 P, TPE- on with F	with dri (316L) ·U			tificate	); welded	version	5	other	rs on rec	luest
Diaphragm Protection cap	only for 4 .	FKM; E stainles POM-C PVC, F only in c	PDM (v ss steel ; PUR, FE ombination / <b>2-wir</b>	vithout / 1.4435 P, TPE- on with F <b>e)</b>	with dri (316L) U EP cable				); welded	version	5	other	rs on rec	luest
Diaphragm Protection cap Cable sheath <sup>5</sup> not in combination with SII Explosion protection (	only for 4 .	FKM; E stainles POM-C PVC, F only in c 20 mA IBExU zone 0	PDM (v ss steel PUR, FE ombinatio / <b>2-wir</b> 10 ATE : II 1G	vithout / 1.4435 P, TPE- on with F <b>e)</b> X 1068 Ex ia IIC	with dri (316L) U EP cable X / IE C T4 Ga	possible ECEx IBI	E 12.00	027X	z			other		
Diaphragm Protection cap Cable sheath <sup>5</sup> not in combination with SII Explosion protection (6	only for 4 . )7	FKM; E stainles POM-C PVC, F only in c 20 mA IBExU zone 0 U <sub>i</sub> = 28	PDM (v ss steel PUR, FE ombinatio / <b>2-wir</b> 10 ATE II 1G I V, I <sub>i</sub> = 9	vithout / 1.4435 P, TPE- on with F e) X 1068 Ex ia IIC 93 mA, I	with dri (316L) U EP cable X / IE T4 Ga P <sub>i</sub> = 660	possible ECEx IBI mW, C <sub>i</sub>	E 12.00 ≈ 0 nF,	027X , L <sub>i</sub> ≈ 0	z μH,	one 20:	II 1D E			
Diaphragm Protection cap Cable sheath <sup>5</sup> not in combination with SII <b>Explosion protection (</b> Approvals DX19-LMP 30 Safety technical maximu	only for 4 . )7 m values	FKM; E stainles POM-C PVC, F only in c 20 mA IBExU zone 0 U <sub>i</sub> = 28	PDM (v ss steel PUR, FE ombinatio / <b>2-wir</b> 10 ATE II 1G I V, I <sub>i</sub> = 9	vithout / 1.4435 P, TPE- on with F e) X 1068 Ex ia IIC 93 mA, I	with dri (316L) U EP cable X / IE T4 Ga P <sub>i</sub> = 660	possible ECEx IBI mW, C <sub>i</sub>	E 12.00 ≈ 0 nF,	027X , L <sub>i</sub> ≈ 0	z	one 20:	II 1D E			
Diaphragm Protection cap Cable sheath <sup>5</sup> not in combination with SII <b>Explosion protection (</b> Approvals DX19-LMP 30 Safety technical maximu Permissible temperature	only for 4 . )7 m values	FKM; E stainles POM-C PVC, F only in c 20 mA IBExU zone 0 U <sub>i</sub> = 28 the sup	PDM (v ss steel PUR, FE ombination / <b>2-win</b> 10 ATE : II 1G I V, I <sub>i</sub> = § pply con	vithout / 1.4435 P, TPE- on with F e) X 1068 Ex ia IIC 03 mA, I nection:	with dri (316L) U EP cable X / IE T4 Ga $P_i = 660$ s have a	possible ECEx IBI mW, C <sub>i</sub>	E 12.00 ≈ 0 nF, capacit	027X , L <sub>i</sub> ≈ 0 y of ma	<u>z</u> μΗ, ιx. 27 nF	one 20: to the h	II 1D E ousing		T135 °C	C Da
Diaphragm Protection cap Cable sheath <sup>5</sup> not in combination with SII <b>Explosion protection (</b> Approvals DX19-LMP 30 Safety technical maximu Permissible temperature environment	only for 4 . )7 m values	FKM; E stainles POM-C PVC, F only in c 20 mA IBExU zone 0 U <sub>i</sub> = 28 the sup in zone	PDM (v ss steel ; UR, FE ombination / <b>2-win</b> 10 ATE : II 1G V, I <sub>1</sub> = 9 pply con e 0: -20	vithout / 1.4435 P, TPE- on with F <b>e)</b> X 1068 Ex ia IIC 93 mA, I nections 60 °C	with dri (316L) U EP cable X / IE T4 Ga $P_1 = 660$ s have a	possible ECEx IBI mW, C <sub>i</sub> in inner im 0.8 ba	E 12.00 ≈ 0 nF, capacit ir up to	027X , L <sub>i</sub> ≈ 0 y of ma 1.1 bar	z μΗ, ιx. 27 nF ·	one 20: to the h	II 1D E ousing or high	ix ia IIIC	T135 °C	C Da
Diaphragm Protection cap Cable sheath <sup>5</sup> not in combination with SII <b>Explosion protection (</b> Approvals DX19-LMP 30 Safety technical maximu Permissible temperature environment Connecting cables	only for 4 . )7 m values	FKM; E stainles POM-C PVC, F only in c 1BExU zone 0 U <sub>i</sub> = 28 the sup in zone cable c	PDM (v ss steel ; UR, FE ombination / <b>2-win</b> 10 ATE : II 1G V, I <sub>1</sub> = 9 oply con apacita	vithout / 1.4435 P, TPE- on with F e) X 1068 Ex ia IIC 33 mA, I nections 60 °C nce:	with dri (316L) U EP cable X / IE T4 Ga $P_1 = 660$ s have a s with $p_a$ signal li	possible ECEx IBI mW, C <sub>i</sub> In inner m 0.8 ba ne/shiel	E 12.00 ≈ 0 nF, capacit ir up to d also s	027X , L <sub>i</sub> ≈ 0 y of ma 1.1 bar signal li	z μH, ax. 27 nF ir ne/signal	one 20: to the h 1 zone 1 line: 16	II 1D E ousing or high 0 pF/m	ix ia IIIC	T135 °C	C Da
Diaphragm Protection cap Cable sheath <sup>5</sup> not in combination with SII <b>Explosion protection (</b> Approvals DX19-LMP 30 Safety technical maximu Permissible temperature environment Connecting cables (by factory)	only for 4 . )7 m values	FKM; E stainles POM-C PVC, F only in c 1BExU zone 0 U <sub>i</sub> = 28 the sup in zone cable c	PDM (v ss steel ; UR, FE ombination / <b>2-win</b> 10 ATE : II 1G V, I <sub>1</sub> = 9 pply con e 0: -20	vithout / 1.4435 P, TPE- on with F e) X 1068 Ex ia IIC 33 mA, I nections 60 °C nce:	with dri (316L) U EP cable X / IE T4 Ga $P_1 = 660$ s have a s with $p_a$ signal li	possible ECEx IBI mW, C <sub>i</sub> In inner m 0.8 ba ne/shiel	E 12.00 ≈ 0 nF, capacit ir up to d also s	027X , L <sub>i</sub> ≈ 0 y of ma 1.1 bar signal li	z μΗ, ιx. 27 nF ·	one 20: to the h 1 zone 1 line: 16	II 1D E ousing or high 0 pF/m	ix ia IIIC	T135 °C	C Da
Diaphragm Protection cap Cable sheath <sup>5</sup> not in combination with Sll <b>Explosion protection (</b> Approvals DX19-LMP 30 Safety technical maximu Permissible temperature environment Connecting cables (by factory) <b>Miscellaneous</b>	only for 4 . )7 m values	FKM; E stainles POM-C PVC, F only in c IBExU zone 0 U <sub>i</sub> = 28 the sup in zone cable c cable in	PDM (v ss steel ) ) UR, FE ombination / <b>2-win</b> 10 ATE 10 ATE 10 ATE 10 ATE 20 V, I <sub>i</sub> = 9 pply con e 0: -20 capacita nductan	vithout / 1.4435 P, TPE- pn with F a) X 1068 Ex ia IIC 33 mA, I nection: 60 °C nce: ce:	with dri (316L) U EP cable X / IE T4 Ga $P_1 = 660$ s have a s with $p_a$ signal li	possible ECEx IBI mW, C <sub>i</sub> in inner m 0.8 ba ne/shiel	E 12.00 ≈ 0 nF, capacit ir up to d also s	027X , L <sub>i</sub> ≈ 0 y of ma 1.1 bar signal li	z μH, ax. 27 nF ir ne/signal	one 20: to the h 1 zone 1 line: 16	II 1D E ousing or high 0 pF/m	ix ia IIIC	T135 °C	C Da
Diaphragm Protection cap Cable sheath <sup>5</sup> not in combination with SII <b>Explosion protection (</b> Approvals DX19-LMP 30 Safety technical maximu Permissible temperature environment Connecting cables (by factory) <b>Miscellaneous</b> Option SIL 2 version <sup>6</sup>	only for 4 . )7 m values s for	FKM; E stainles POM-C PVC, F only in c IBExU zone 0 U <sub>i</sub> = 28 the sup in zone cable c cable in	PDM (v ss steel ) ) UR, FE ombination / 2-wir 10 ATE : II 1G I V, I <sub>i</sub> = 9 pply con e 0: -20 capacita nductan	vithout / 1.4435 P, TPE- pn with F a) X 1068 Ex ia IIC 33 mA, I nection: 60 °C nce: ce:  C 6150	with dri (316L) U EP cable X / IE T4 Ga S + 660 S have a S with pa signal li signal li S + IEC	possible ECEx IBI mW, C <sub>i</sub> in inner m 0.8 ba ne/shiel	E 12.00 ≈ 0 nF, capacit ir up to d also s d also s	027X , L <sub>i</sub> ≈ 0 y of ma 1.1 bar signal li	z μH, ax. 27 nF ir ne/signal	one 20: to the h 1 zone 1 line: 16	II 1D E ousing or high 0 pF/m	ix ia IIIC	T135 °C	C Da
Diaphragm Protection cap Cable sheath <sup>5</sup> not in combination with SII <b>Explosion protection (</b> Approvals DX19-LMP 30 Safety technical maximu Permissible temperature environment Connecting cables (by factory) <b>Miscellaneous</b> Option SIL 2 version <sup>6</sup>	only for 4 . )7 m values s for	FKM; E stainles POM-C PVC, F only in c 20 mA IBExU zone 0 U <sub>i</sub> = 28 the sup in zone cable c cable in accord accord (with o	PDM (v ss steel ) ) UR, FE ombination / <b>2-win</b> 10 ATE : II 1G V, I <sub>1</sub> = 9 pply con e 0: -20 rapacita inductan ing to IE ing to D rder the	vithout / 1.4435 P, TPE- p,	with dri (316L) U EP cable X / IE T4 Ga $P_i = 660$ s have a signal li signal li signal li 8 / IEC / 270 an on "with	possible ECEx IBI mW, C <sub>i</sub> in inner m 0.8 ba ne/shiel 61511 d UBA I drinking	E 12.00 ≈ 0 nF, capacit ir up to d also s d also s	27X , L₁ ≈ 0 y of ma 1.1 bar signal li signal li	z μH, ax. 27 nF ir ne/signal	one 20: to the h a zone 1 line: 16 line: 1	II 1D E ousing or high 0 pF/m JH/m	ix ia IIIC	T135 °C	C Da
Diaphragm Protection cap Cable sheath <sup>5</sup> not in combination with SII <b>Explosion protection (</b> Approvals DX19-LMP 30 Safety technical maximu Permissible temperature environment Connecting cables (by factory) <b>Miscellaneous</b> Option SIL 2 version <sup>6</sup> Drinking water certificate	only for 4 . )7 m values s for	FKM; E stainles POM-C PVC, F only in c 20 mA IBExU zone 0 U <sub>i</sub> = 28 the sup in zone cable c cable in accord accord (with o	PDM (v ss steel ) ) UR, FE ombination / <b>2-win</b> 10 ATE : II 1G V, I <sub>1</sub> = 9 pply con e 0: -20 rapacita inductan ing to IE ing to D rder the	vithout / 1.4435 P, TPE- p,	with dri (316L) U EP cable X / IE T4 Ga $P_1 = 660$ s have a s have a signal li signal li signal li 8 / IEC / 270 an	possible ECEx IBI mW, C <sub>i</sub> in inner m 0.8 ba ne/shiel 61511 d UBA I drinking	E 12.00 ≈ 0 nF, capacit ir up to d also s d also s	27X , L₁ ≈ 0 y of ma 1.1 bar signal li signal li	z μH, ax. 27 nF ir ne/signal ne/signal ate" is ne	one 20: to the h zone 1 line: 16 line: 1	II 1D E ousing or high 0 pF/m JH/m	ix ia IIIC	T135 °C 20 70	°C
Diaphragm Protection cap Cable sheath <sup>5</sup> not in combination with SII <b>Explosion protection (</b> Approvals DX19-LMP 30 Safety technical maximu Permissible temperature environment Connecting cables (by factory) <b>Miscellaneous</b> Option SIL 2 version <sup>6</sup> Drinking water certificate Current consumption	only for 4 . )7 m values s for	FKM; E stainles POM-C PVC, F only in c IBExU zone 0 U <sub>i</sub> = 28 the sup in zone cable c cable in accord accord (with o signal	PDM (v ss steel ) ) UR, FE ombination / <b>2-win</b> 10 ATE : II 1G I V, I <sub>i</sub> = § pply con e 0: -20 capacita inductan ing to IE ing to D rder the putput c	vithout / 1.4435 P, TPE- p,	with dri (316L) U EP cable X / IE T4 Ga $P_1 = 660$ s have a signal li signal li signal li signal li 2 / IEC / 270 an on "with max. 25	possible ECEx IBI mW, C <sub>i</sub> in inner m 0.8 ba ne/shiel 61511 d UBA I drinking	E 12.00 ≈ 0 nF, capacit ir up to d also s d also s	27X , L₁ ≈ 0 y of ma 1.1 bar signal li signal li	z μH, ax. 27 nF ir ne/signal ne/signal ate" is ne	one 20: to the h zone 1 line: 16 line: 1	II 1D E ousing or high 0 pF/m JH/m	ix ia IIIC er: -40/-	T135 °C 20 70	°C
Diaphragm Protection cap Cable sheath <sup>5</sup> not in combination with SII <b>Explosion protection (</b> Approvals DX19-LMP 30 Safety technical maximu Permissible temperature environment Connecting cables (by factory) <b>Miscellaneous</b> Option SIL 2 version <sup>6</sup> Drinking water certificate Current consumption Weight	only for 4 . )7 m values s for	FKM; E stainles POM-C PVC, F only in c IBExU zone 0 U <sub>i</sub> = 28 the sup in zone cable c cable in accord accord (with o signal	PDM (v ss steel ) ) UR, FE ombination / <b>2-win</b> 10 ATE : II 1G I V, I <sub>i</sub> = § pply con e 0: -20 capacita inductan ing to IE ing to D rder the putput c	vithout / 1.4435 P, TPE- pn with F e) X 1068 Ex ia IIC 33 mA, I nection: 60 °C nce: ce: C 6150 VGW W indicati urrent:	with dri (316L) U EP cable X / IE T4 Ga $P_1 = 660$ s have a signal li signal li signal li signal li 2 / IEC / 270 an on "with max. 25	possible ECEx IBI mW, C <sub>i</sub> in inner m 0.8 ba ne/shiel 61511 d UBA I drinking	E 12.00 ≈ 0 nF, capacit ir up to d also s d also s	27X , L₁ ≈ 0 y of ma 1.1 bar signal li signal li	z μH, ax. 27 nF ir ne/signal ne/signal ate" is ne	one 20: to the h zone 1 line: 16 line: 1	II 1D E ousing or high 0 pF/m JH/m	ix ia IIIC er: -40/-	T135 °C 20 70	°C
Diaphragm Protection cap Cable sheath <sup>5</sup> not in combination with SII <b>Explosion protection (</b> Approvals DX19-LMP 30 Safety technical maximu	only for 4 . )7 m values s for	FKM; E stainles POM-C PVC, F only in c IBExU zone 0 U <sub>i</sub> = 28 the sup in zone cable c cable in accord accord (with o signal approx IP 68 EMC D	PDM (v ss steel ) ) UR, FE ombination / 2-wirr 10 ATE 10 ATE 10 ATE 10 ATE 10 ATE 20 ply con e 0: -20 mapacita nductan ing to IE ing to D rder the putput c . 200 g	vithout / 1.4435 P, TPE- pn with F e) X 1068 Ex ia IIC 33 mA, I nection: 60 °C nce: ce: C 6150 VGW W indicati urrent:	with dri (316L) U EP cable X / IE T4 Ga $C_1 = 660$ s have a signal li signal li signal li signal li signal li 2 / IEC / 270 an on "with max. 25 cable)	possible ECEx IBI mW, C <sub>i</sub> in inner m 0.8 ba ne/shiel 61511 d UBA I drinking	E 12.00 ≈ 0 nF, capacit ir up to d also s d also s	27X , L₁ ≈ 0 y of ma 1.1 bar signal li signal li	z μH, ax. 27 nF ir ne/signal ne/signal ate" is ne	one 20: to the h zone 1 line: 16 line: 1	II 1D E ousing or high 0 pF/m JH/m	ix ia IIIC er: -40/-	T135 °C 20 70	°C
Diaphragm Protection cap Cable sheath <sup>5</sup> not in combination with SII <b>Explosion protection (</b> Approvals DX19-LMP 30 Safety technical maximu Permissible temperature environment Connecting cables (by factory) <b>Miscellaneous</b> Option SIL 2 version <sup>6</sup> Drinking water certificate Current consumption Weight Ingress protection	only for 4 . )7 m values s for	FKM; E stainles POM-C PVC, F only in c 20 mA IBExU zone 0 U <sub>i</sub> = 28 the sup in zone cable c cable in accord accord (with o signal approx IP 68	PDM (v ss steel ) ) UR, FE ombination / 2-wirr 10 ATE 10 ATE 10 ATE 10 ATE 10 ATE 20 ply con e 0: -20 mapacita nductan ing to IE ing to D rder the putput c . 200 g	vithout / 1.4435 P, TPE- on with F a) X 1068 Ex ia IIC 3 mA, I nection: 60 °C nce: ce: C 6150 VGW W indicati urrent: (without	with dri (316L) U EP cable X / IE T4 Ga $C_1 = 660$ s have a signal li signal li signal li signal li signal li 2 / IEC / 270 an on "with max. 25 cable)	possible ECEx IBI mW, C <sub>i</sub> in inner m 0.8 ba ne/shiel 61511 d UBA I drinking	E 12.00 ≈ 0 nF, capacit ir up to d also s d also s	27X , L₁ ≈ 0 y of ma 1.1 bar signal li signal li	z μH, ax. 27 nF ir ne/signal ne/signal ate" is ne	one 20: to the h zone 1 line: 16 line: 1	II 1D E ousing or high 0 pF/m JH/m	ix ia IIIC er: -40/-	T135 °C 20 70	°C



#### Mounting flange with cable gland



dimensions in mm					
size	DN25 /	DN50 /	DN80 /		
Size	PN40	PN40	PN16		
b	18	20	20		
D	115	165	200		
d2	14	18	18		
d4	68	102	138		
f	2	3	3		
k	85	125	160		
n	4	4	8		

#### **Technical data** Suitable for all probes Flange material stainless steel 1.4404 (316L) standard: brass, nickel plated on request: stainless steel 1.4305 (303); plastic Material of cable gland Seal insert material: TPE (ingress protection IP 68) according to DIN 2507 Hole pattern Ordering type Ordering code Weight 1.4 kg DN25 / PN40 with cable gland brass, nickel plated ZMF2540 DN50 / PN40 with cable gland brass, nickel plated ZMF5040 3.2 kg DN80 / PN16 with cable gland brass, nickel plated ZMF8016 4.8 kg

#### Terminal clamp



#### Technical data Suitable for all probes with cable $\varnothing$ 5.5 ... 10.5 mm Material of housing standard: steel, zinc plated optionally: stainless steel 1.4301 (304) Material of clamping jaws PA (fibre-glass reinforced) and positioning clips Dimensions (mm) 174 x 45 x 32 Hook diameter 20 mm Ordering type Weight Ordering code Terminal clamp, steel, zinc plated Z100528 approx. 160 g Terminal clamp, stainless steel 1.4301 (304) Z100527

#### Display program

CIT 200	Process display with LED display			
CIT 250	Process display with LED display and contacts			
CIT 300	Process display with LED display, contacts and analogue output			
CIT 350	Process display with LED display, bargraph, contacts and analogue output			
CIT 400	Process display with LED display, contacts, analogue output and Ex-approval			458
CIT 600	Multichannel process display with graphics-capable LC display	Sol	35.65	
CIT 650	Multichannel process display with graphics-capable LC display and datalogger	Sola	2799.9 14.58	
CIT 700 /	CIT 750 Multichannel process display with graphics-capable TFT monitor, touchscreen and contacts			0 0
PA 440	Field display with 4-digit LC display	- ROG	2799.9 14.58	0
	er information please contact our sales department or visit our homepage: w.bdsensors.de	The second secon	35.65	HEB



pressure measurement

BI

BD	S	Ε	N	S		R	S
1	1		pres	sure	mea	sure	ment

	Ordering code LMP 307	
LMP 307		
Pressure in bar	4 5 0	
in mH <sub>2</sub> O Input [mH <sub>2</sub> O] [bar]	4 5 1	
1.0 0.10 1.6 0.16	1 0 0 0 1 1 6 0 0 2 5 0 0	
2.5 0.25 4.0 0.40 6.0 0.60	2 5 0 0 4 0 0 0 6 0 0 0	
10 1.0 16 1.6		
25 2.5 40 4.0	2 5 0 1	
60 6.0 100 10	6 0 0 1 1 0 0 2	
160 16 250 25	4   0   0   1     6   0   0   1     1   0   0   2     1   6   0   2     2   5   0   2     9   9   9   9	
Customer Housing stainless steel 1.4404 (316L)		consult
Diaphragm	9	consult
stainless steel 1.4435 (316L) customer	1 9	consult
Output 4 20 mA / 2-wire		
0 20 mA / 3-wire 0 10 V / 3-wire	2 3	
intrinsic safety 4 20 mA / 2-wire SIL2 4 20 mA / 2-wire SIL 2 with Intrinsic safety	E 1S	
4 20 mA / 2-wire customer	ES 9	consult
Seals FKM	1	
DVGW/KTW: EPDM	3 3T	
petrol-version: without (welded version) <sup>2,</sup> customer	21 9	consult
Accuracystandard for $p_N \ge 0.4$ bar0.35 % FSOstandard for $p_N < 0.4$ bar0.5 % FSO	3 5	
option 1 for $p_N \ge 0.4$ bar0.25 % FSOoption 20.1 % FSO $^2$	2	
Electrical connection	9	consult
PVC-cable (grey, Ø 7.4 mm) <sup>3</sup> PUR-cable (black, Ø 7.4 mm) <sup>3</sup>	1 2 3	
FEP-cable (black, Ø 7.4 mm) <sup>3</sup> TPE-U-cable (blue, Ø 7.4 mm) <sup>3</sup> DVGW/KTW:	4	
TPE-U-cable (blue, Ø 7.4 mm) <sup>1,</sup> customer	3 F 9	consult
Cable length in m		
standard: 3 m PVC standard: 5 m PVC	0 0	5
standard: 10 m PVC standard: 15 m PVC standard: 20 m PVC	0 1 0 1 0 2	5
special length PVC	9 9	
standard: 3 m PUR standard: 5 m PUR	0 0 0	3 5
standard: 10 m PUR standard: 15 m PUR	0 1 0 1	5
standard: 20 m PUR special length PUR	0 2 9 9	9
standard: 5 m FEP standard: 10 m FEP	0 0 1	0
special length FEP special length TPE-U	999	
Special version standard		0 0 0
prepared for mounting with stainless steel customer		5 0 3 9 9 9 consult

<sup>1</sup> drinking water certification only possible with EPDM seal (code 3T) in combination with TPE-U cable (code F); not possible with IS version (explosion protection)
<sup>2</sup> not in combination with SIL
<sup>3</sup> shielded cable with integrated ventilation tube for atmospheric pressure reference
<sup>4</sup> petrol-version only in combination with FEP cable
Standard lengths 3 / 5 / 10 / 15 / 20 m are available from stock, special lengths are manufactured order-related.