



LMP 305

Slimline Probe

Stainless Steel Sensor

accuracy according to EN IEC 62828-2: standard: 0.35 % span option: 0.25 % span

Nominal pressure

from 0 ... 1 mH₂O up to 0 ... 250 mH₂O

Output signals

2-wire: 4 ... 20 mA others on request

Special characteristics

- diameter 19 mm for cramped areas
- small thermal effect
- excellent long term stability
- excellent linearity

Optional versions

- different kinds of cable
- customer specific versions
 e.g. special pressure ranges

The slimline probe LMP 305 with silicon stainless steel sensor is designed for continous level measurement in confined space conditions. Permissible media are clean or waste water and thin fluids.

A piezoresistiv stainless steel sensor with low thermal error, an excellent linearity and a long term stability, is basis of LMP 305.

Preferred areas of use are

<u>Water</u>

level measurement in confined space conditions



ground water monitoring

depth or level measurement in wells and open waters drinking water system level measurement in container





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The company BD SENSORS s.r.o. is certified by Bureau Veritas Czech according to the standard ISO 9001.

	0.4	0.10	0.25	0.4	0.6	4	1.0	25	A	6	40	10	05
Nominal pressure gauge [bar]	0.1	0.16	0.25	0.4	0.6	1	1.6	2.5	4	6	10	16	25
Level [mH ₂ O]	1	1.6	2.5	4	6	10	16	25	40	60	100	160	250
Overpressure [bar]	1	1	1	1	3	3	6	6	20	20	60	60	100
max. ambient pressure (housing)	40 bar												
Output signal / Supply													
Standard	2-wire:	4	. 20 mA	$A / V_s =$	12 36	V _{DC}							
Performance													
Accuracy	standa	rd: no	minal p	ressure	> 0.4 ba	ar: ≤	± 0.35 %	span					
,	option	no	, minal p	ressure	≤ 0.4 ba > 0.4 ba	ar: ≤	± 0.50 % ± 0.25 %	span					
Permissible load	· ·	[(Vs - V											
Influence effects	supply load:	: 0.0	05 % sp	oan / 10 5 an / kΩ	V								
Long term stability		% span			<u>.</u>								
Response time	< 10 m												
¹ accuracy according to EN IEC 62828-2	-		nent (no	n-linearit	v. hvstere	sis. repe	atability)						
Thermal effects (Offset and Span					,,,	,							
Nominal pressure P_N [bar]	/	≤ 0.1		≤ 0.	25		≤ 0.4			≤ 1		> 1	
Tolerance band [% span]		≤ 0.1 ≤ ± 2		≤ 0. ≤±′	-		≤ 0.4 ≤ ± 1			≤ ı ±1		≤±0.7	75
TC, average [% span / 10 K]		≤±2 ±0.3		± 0	-		≤±1 ±0.14			± 1 0.1		± 0.0	-
in compensated range [°C]		10.5		0			10.14				0 70		1
1 0 1 1				0	50						0 /()	
Permissible temperatures													
Permissible temperatures					nent/ sto								
*If the cable is intended for use in a small	ller tempe	erature rai	nge, the	use of th	e probe is	limited	by this ra	nge.					
Electrical protection ²		4											
Short-circuit protection	perma												
Reverse polarity protection	no dan	nage, bu	no damage, but also no function										
Integrated overvoltage protection (g	ground w	vire) in ac <i>terminal l</i>	mmunit <u>;</u> ccordar	y accord ice with	ling to El CSN EN	I 61000	-4-5 (1	,	availab	le on req	uest		
Integrated overvoltage protection (c ² additional external overvoltage protecti ³ version with the output signal 4 20 n	ground w	vire) in ac <i>terminal l</i>	mmunit <u>;</u> ccordar	y accord ace with or KL 2	ding to El CSN EN with atmo	l 61000 spheric	0-4-5 (1 k	reference		le on req	uest		
Integrated overvoltage protection (g ² additional external overvoltage protecti	pround w on unit in nA / 2-win PVC PUR	rire) in ac terminal l e (-5 (-25	mmunity ccordar <i>box KL 1</i> 70 °C) 80 °C	y accord oce with or KL 2 grey) black	ding to El CSN EN with atmo (-25	I 61000 spheric , . 70 °C	o-4-5 (1 k pressure	conditio	n)	Ø 7,4 r Ø 7,4 r	nm nm		
Integrated overvoltage protection (g ² additional external overvoltage protection ³ version with the output signal 4 20 m Electrical connection Cable with sheath material ⁴	round w on unit in nA / 2-win PVC PUR FEP ⁵	rire) in ac terminal l e (-5 (-25 (-25	mmunit <u>;</u> ccordar box <i>KL 1</i> 70 °C) 80 °C 75 °C	y accord or KL 2 grey) black) black	ding to El CSN EN with atmo (-25 (with c	l 61000 spheric . 70 °C Irinking	in fixed	conditio	n)	Ø 7,4 r	nm nm		
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Technical data	all much as		cable gland M16x1.5 with
Suitable for	all probes	− seal insert (for cable-Ø 4 11 mm)	
Flange material	stainless steel 1.4404 (316L) standard: brass, nickel plated	- \	
Material of cable gland	on request: stainless steel 1.4305 (303	3); plastic	
Seal insert	material: TPE (ingress protection IP 68)		n x d2
Hole pattern	according to DIN 2507		
Version	Size (in mm)	Weight	
DN25 / PN40	D = 115, k = 85, b = 18, n = 4, d= 14	1.4 kg	
DN50 / PN40	D = 165, k = 125, b = 20, n = 4, d= 18	3.2 kg	k
DN80 / PN16	D = 200, k = 160, b = 20, n = 8, d= 18	4.8 kg	D D
Ordering type		Ordering code	
DN25 / PN40 with cable	gland brass, nickel plated	5000275	
DN50 / PN40 with cable	gland brass, nickel plated	5000278	
DN80 / PN16 with cable	gland brass, nickel plated	5000279	
Cable clamp			
Technical Data			
Suitable for	all probes with cable \varnothing 5.5 10.5 mm		
Material	standard: steel, zinc plated optionally: stainless steel 1.4301 (304)		
Weight	approx. 160 g		
Ordering type		Ordering code	
Terminal clamp, of stee	l, zinc plated	1003440	
Terminal clamp, of stair	lless steel 1.4301 (304)	1000278	
Display program			
CIT 200 Process display with LE	D display		
CIT 250 Process display with LE	D display and contacts		
CIT 300 Process display with LE	D display, contacts and analogue output		
CIT 350 Process display with LE	D display, bargraph, contacts and analog	ue output	
CIT 400 Process display with LE	D display, contacts, analogue output and	Ex-approval	2450
CIT 600 Multichannel process di	splay with graphics-capable LC display		
CIT 650 Multichannel process di	splay with graphics-capable LC display ar	nd datalogger	2799.9 14.58
CIT 700	splay with graphics-capable TFT monitor,		2799.9 14.58
PA 440 Field display with 4-digi	t LC display		35.65 ^m
For further information p	please contact our sales department or vis	it our	305

LMP305_EN_07.06.2021





			Ordering code LMP 305
23.08.20)24	LMP 305	
		LIMP 305	└┼┼┽┥╹└┽┽┿┥╹└┥╹└┥╹└┥╹└┥╹└┥╹└┥╹└┥╹└┿┼╄┥
Pressure			
in bar			4 0 0
in m H ₂ O			4 0 1
Input	[mH₂O]	[bar]	
	0 1	0 0,1	
	0 1,6	0 0,16	
	0 2,5	0 0,25	2 5 0 0
	0 4	0 0,4	4 0 0 0
	0 6	0 0,6	6 0 0 0
	0 10	0 1	
	0 16	0 1,6	1 6 0 1
	0 25	0 2,5	2 5 0 1
	0 40	0 4	4 0 0 1
	0 60	0 6	6 0 0 1
	0 100	0 10	1 0 0 2
	0 160	0 16	1 6 0 2
	0 250	0 25	2 5 0 2
Customer			9 9 9 9
Housing ma			
	el 1.4404 (316	6L)	1
Diaphragm			
Stainless ste	el 1.4435 (316	6L)	1
Output			
4 20 mA /	2-wire		1
Customer			9
Seals			
Viton (FKM)			1
EPDM			3
Customer			9
Accuracy	0.4 h = ==)		
0,5 % (P _N ≤ 0			5
0,35 % (P _N >			3
0,25 % (P _N >	• 0,4 bar)		2
Customer			9
Electrical co			
		nm, price for 1 m) ¹	1
		mm, price for 1 m) ¹	2
	with PTFE she	eath (black, Ø 7,4 mm, price fo	
Customer			9
Cable length	h		
in m			9 9 9
Special vers	sion		
Standard			0 0 0
Customer	for ordere	ible trenewitter	9 9
		ible transmitter	1003440
	mp - zinc plate		
	mp - Stainless rew PG16 - pla		1000278 5002200
wounting sci		15116	5002200

0,-...without additional charge

On request...in accordance with the producer

Surcharges for calibration are not subject to any discounts. Subject to change.

This document contains the specification for ordering the product; detailed technical parameters of the product and its possible variants are given in the data BD SENSORS reserves the right to change sensor specifications without further notice.







1 shielded cable with integrated ventilation tube for atmospheric pressure reference



