

Input pressure range		0.1	0.16	0.25	0.4	0.6	1	1.6	2.5	4	6	10	16	25
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

Output signal / Supply	
Standard	2-wire: 4 ... 20 mA / V _S = 12 ... 36 V _{DC}
Performance	
Accuracy	standard: nominal pressure > 0.4 bar: ± 0.35 % FSO nominal pressure \leq 0.4 bar: ± 0.50 % FSO option: nominal pressure > 0.4 bar: ± 0.25 % FSO
Permissible load	$R_{max} = [(V_S - V_{Smin}) / 0,02 A] \Omega$
Influence effects	supply: 0.05 % FSO / 10 V load: 0.05 % FSO / k Ω
Long term stability	$\leq \pm 0.1$ % FSO / year
Response time	< 10 msec

¹ accuracy according to IEC 60770 – limit point adjustment (non-linearity, hysteresis, repeatability)

Thermal effects (Offset and Span)						
Nominal pressure P _N	[bar]	≤ 0.1	≤ 0.25	≤ 0.4	≤ 1	> 1
Tolerance band	[% FSO]	$\leq \pm 2$	$\leq \pm 1.5$	$\leq \pm 1$	$\leq \pm 1$	$\leq \pm 0.75$
TC, average	[% FSO / 10 K]	± 0.3	± 0.2	± 0.14	± 0.1	± 0.07
in compensated range	[°C]	0 ... 50			0 ... 70	

Permissible temperatures	
Permissible temperatures	Medium/ electronics/ environment/ storage: -20 ... 80 °C *

*If the cable is intended for use in a smaller temperature range, the use of the probe is limited by this range.

Electrical protection ²	
Short-circuit protection	permanent
Reverse polarity protection	no damage, but also no function
Electromagnetic compatibility	emission and immunity according to EN 61326
Integrated overvoltage protection (ground wire) in accordance with CSN EN 61000-4-5 (1 kV) ³	

² additional external overvoltage protection unit in terminal box KL 1 or KL 2 with atmospheric pressure reference available on request

³ version with the output signal 4 ... 20 mA / 2-wire

Electrical connection		
Cable with sheath material ⁴	PVC (-5 ... 70 °C) grey (-25 ... 70 °C in fixed condition) PUR (-25 ... 80 °C) black FEP ⁵ (-25 ... 75 °C) black	Ø 7,4 mm Ø 7,4 mm Ø 7,4 mm
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	
Bending radius	static installation: 10-fold cable diameter dynamic application: 20-fold cable diameter	

⁴ cable with integrated air tube for atmospheric pressure reference

⁵ do not use freely suspended probes with an FEP cable if effects due to highly charging processes are expected

Materials (media wetted)	
Housing	stainless steel 1.4404 (316L)
Seals	FKM / EPDM
Diaphragm	stainless steel 1.4435 (316L)
Protection cap	POM-C
Cable sheath	PVC / PUR / FEP

Miscellaneous	
Connecting cables (by factory)	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
Current consumption	signal output current: max. 25 mA
Weight	approx. 100 g (without cable)
Ingress protection	IP 68
CE-conformity	EMC Directive: 2014/30/EU

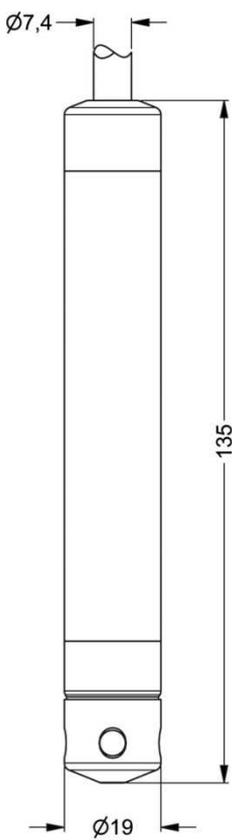
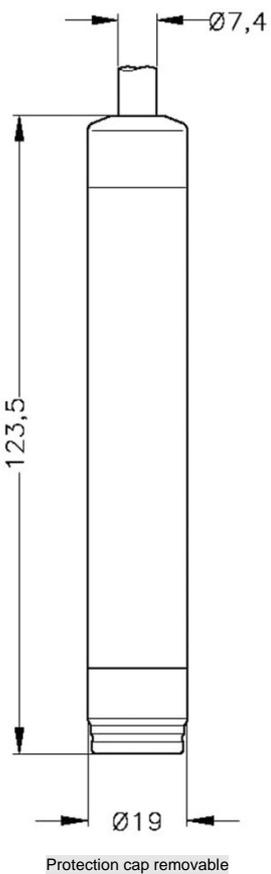


LMP 305

Stainless Steel Probe

Technical Data

Pin configuration	
Electrical connection	cable colours (DIN 47100)
Supply +	wh (white)
Supply -	bn (brown)
Shield	gn/ye (green / yellow)

Dimensions (in mm)	
	

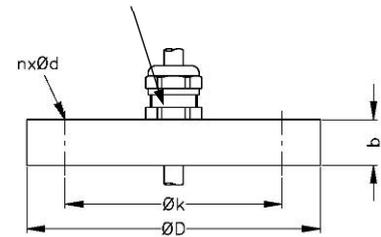
This data sheet contains product specification. Properties are not guaranteed. Subject to change without notice.

Mounting flange with cable gland

Technical data

Suitable for	all probes	
Flange material	stainless steel 1.4404 (316L)	
Material of cable gland	standard: brass, nickel plated on request: stainless steel 1.4305 (303); plastic	
Seal insert	material: TPE (ingress protection IP 68)	
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
DN80 / PN16	D = 200, k = 160, b = 20, n = 8, d = 18	4.8 kg

cable gland M16x1.5 with seal insert (for cable- \varnothing 4 ... 11 mm)



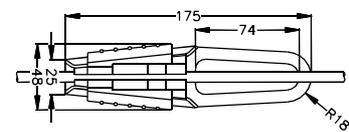
Ordering type

Ordering type	Ordering code
DN25 / PN40 with cable gland brass, nickel plated	ZMF2540
DN50 / PN40 with cable gland brass, nickel plated	ZMF5040
DN80 / PN16 with cable gland brass, nickel plated	ZMF8016

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 type	Ordering code
Terminal clamp, of steel, zinc plated	1003440
Terminal clamp, of stainless steel 1.4301 (304)	1000278

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

CIT 600

Multichannel process display with graphics-capable LC display

CIT 650

Multichannel process display with graphics-capable LC display and datalogger

CIT 700

Multichannel process display with graphics-capable TFT monitor, touchscreen and contacts

PA 440

Field display with 4-digit LC display

For further information please contact our sales department or visit our homepage: <http://www.bdsensors.com>



Ordering code LMP 305

3.4.2020

LMP 305

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Pressure																						
in bar		4	0	0																		
in m H ₂ O		4	0	1																		
Input	[mH₂O]	[bar]																				
0 ... 1		0 ... 0,1			1	0	0	0														
0 ... 1,6		0 ... 0,16			1	6	0	0														
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			1	0	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 material																						
Stainless steel 1.4404 (316L)								1														
Diaphragm material																						
Stainless steel 1.4435 (316L)									1													
Output																						
4 ... 20 mA / 2-wire										1												
Customer											9											
Seals																						
Viton (FKM)												1										
EPDM													3									
Customer														9								
Accuracy																						
0,5 % (P _N ≤ 0,4 bar)															5							
0,35 % (P _N > 0,4 bar)																3						
0,25 % (P _N > 0,4 bar)																	2					
Customer																	9					
Electrical connection																						
PVC - cable (grey, Ø 7,4 mm, price for 1 m)																				1		
PUR - cable (black, Ø 7,4 mm, price for 1 m)																				2		
FEP - cable with PTFE sheath (black, Ø 7,4 mm, price for 1 m)																				3		
Customer																				9		
Cable length																						
in m																				9	9	9
Special version																						
Standard																				0	0	0
Customer																				9	9	9
Accessories for submersible transmitter																						
Terminal clamp - zinc plated																					1003440	
Terminal clamp - Stainless Steel 1.4301																					1000278	
Mounting screw PG16 - plastic																					5002200	

0,-...without additional charge
 On request...in accordance with the producer
 Surcharges for calibration are not subject to any discounts. Subject to change.
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