



LMP 308

Separable **Stainless Steel Probe**

Stainless Steel Sensor

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

Nominal pressure

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

Output signals

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

Special characteristics

- diameter 35 mm
- cable and sensor section separable
- excellent accuracy
- excellent long term stability

Optional versions

- IS-version zone 0
- SIL 2 (Safety Integrity Level)
- cable protection via corrugated pipe
- mounting accessories as cable gland and terminal clamp of stainless steel
- different kinds of cables
- different kinds of seal materials

The separable stainless steel probe LMP 308 is designed for the continually level measurement of water and thin fluids.

In order to facilitate stock-keeping and maintenance the transmitter head is plugged to the cable assembly with a connector and can be changed easily.

Preferred areas of use are

Water / filtrated sewage



ground water level measurement level measurement in wells and open waters

rain spillway basin level measurement in container water treatment plants water recycling















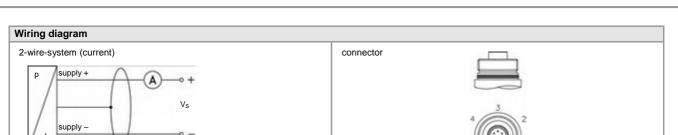
Stainless Steel Probe

Input pressure range														
Nominal pressure gauge	[bar]	0.10	0.16	0.25	0.40	0.60	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]	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

Standard 2-wire: 4 20 mA / $V_S = 8$ 32 V_{DC} SIL-version: $V_S = 14$ 28 V_{DC} Option IS-protection 2-wire: 4 20 mA / $V_S = 10$ 28 V_{DC} SIL-version: $V_S = 14$ 28 V_{DC} Performance Accuracy 1 standard: nominal pressure < 0.4 bar: ≤±0.5 % FSO nominal pressure ≥ 0.4 bar: ≤±0.35 % FSO option 1: nominal pressure ≥ 0.4 bar: ≤±0.25 % FSO option 1: nominal pressure ≥ 0.4 bar: ≤±0.25 % FSO option 1: nominal pressure ≥ 0.4 bar: ≤±0.25 % FSO option 1: nominal pressure ≥ 0.4 bar: ≤±0.25 % FSO option 1: nominal pressure ≥ 0.4 bar: ≤±0.25 % FSO option 1: nominal pressure ≥ 0.4 bar: ≤±0.25 % FSO option 2: for all nominal pressure ≥ 0.4 bar: ≤±0.1 % FSO option 2: for all nominal pressure ≥ 0.4 bar: ≤±0.1 % FSO option 2: for all nominal pressure ≥ 0.4 bar: ≤±0.1 % FSO option 2: for all nominal pressure ≥ 0.4 bar: ≤±0.1 % FSO option 2: for all nominal pressure ≥ 0.4 bar: ≤±0.1 % FSO option 2: for all nominal pressure ≥ 0.4 bar: ≤±0.1 % FSO option 2: for all nominal pressure ≥ 0.4 bar: ≤±0.1 % FSO option 2: for all nominal pressure ≥ 0.4 bar: ≤±0.1 % FSO option 2: for all nominal pressure ≥ 0.4 bar: ≤±0.1 % FSO option 2: for all nominal pressure ≥ 0.4 bar: ≤±0.1 % FSO option 2: for all nominal pressure ≥ 0.4 bar: ≤±0.1 % FSO option 2: for all nominal pressure ≥ 0.4 bar: ≤±0.1 % FSO option 2: for all nominal pressure 2: 0.1 % FSO option 2: for all nominal pressure 2: 0.1 % FSO option 2: for all nominal pressure 2: 0.1 % FSO option 2: for all nominal pressure 2: 0.2 % FSO option 2: for all nominal pressure 2: 0.2 % FSO option 2: for all nominal pressure 2: 0.2 % FSO option 2: for all nominal pressure 2: 0.2 % FSO option 2: for all nominal pressure 2: 0.2 % FSO option 2: for all nominal pressure 2: 0.2 % FSO option 2: for all nominal pressure 2: 0.2 % FSO option 2: for all nominal pressure 2: 0.2 % FSO option 2: for all nominal pressure 2: 0.2 % FSO option 2: for all nominal pressure 2: 0.2 % FSO option 2: for all nominal pressure 2: 0.2 % FSO option 2: for all nominal pressure 2: 0.2
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Permissible load $R_{max} = \left[\left(V_S - V_{S \ min} \right) / 0.02 \ A \right] \Omega$ Influence effects $\sup_{\text{out}} \left[\left(V_S - V_{S \ min} \right) / 0.02 \ A \right] \Omega$ Influence effects $\sup_{\text{out}} \left[\left(V_S - V_{S \ min} \right) / 0.02 \ A \right] \Omega$ Long term stability $ \leq \pm 0.1 \ \% \ FSO / \text{year at reference conditions}$ Response time $ < 10 \ \text{msec} $ $ ^1 \text{ accuracy according to IEC 60770 - limit point adjustment (non-linearity, hysteresis, repeatability)}$ Thermal effects (Offset and Span) Nominal pressure $P_N = [\text{bar}] \qquad < 0.40 \qquad \qquad \geq 0.40$ Tolerance band $ [\% \ FSO] \qquad \leq \pm 1 \qquad \qquad \leq \pm 0.75 $ in compensated range $ [^{\circ}C] \qquad \qquad 0 \dots 70 $ Permissible temperatures Permissible temperatures Permissible temperatures Permissible temperatures $ (\% \ FSO) = 0 \dots 70 \ C \qquad \text{storage: -25 70 } ^{\circ}C $ Electrical protection $ (\% \ FSO) = 0 \dots 70 \ C \qquad \text{storage: -25 70 } ^{\circ}C $ Electrical protection $ (\% \ FSO) = 0 \dots 70 \ C \qquad \text{storage: -25 70 } ^{\circ}C $ Electrical protection $ (\% \ FSO) = 0 \dots 70 \ C \qquad \text{storage: -25 70 } ^{\circ}C $ Electrical protection $ (\% \ FSO) = 0 \dots 70 \ C \qquad \text{storage: -25 70 } ^{\circ}C $ Electrical protection $ (\% \ FSO) = 0 \dots 70 \ C \qquad \text{storage: -25 70 } ^{\circ}C $ Electrical protection $ (\% \ FSO) = 0 \dots 70 \ C \qquad \text{storage: -25 70 } ^{\circ}C $ Electrical protection $ (\% \ FSO) = 0 \dots 70 \ C \qquad \text{storage: -25 70 } ^{\circ}C $ Electrical protection $ (\% \ FSO) = 0 \dots 70 \ C \qquad \text{storage: -25 70 } ^{\circ}C $ Electrical connection $ (\% \ FSO) = 0 \dots 70 \ C \qquad \text{storage: -25 70 } ^{\circ}C $ Electrical connection $ (\% \ FSO) = 0 \dots 70 \ C \qquad \text{storage: -25 70 } ^{\circ}C $ Electrical connection $ (\% \ FSO) = 0 \dots 70 \ C \qquad \text{storage: -25 70 } ^{\circ}C $ Electrical connection $ (\% \ FSO) = 0 \dots 70 \ C \qquad \text{storage: -25 70 } ^{\circ}C $ Electrical connection $ (\% \ FSO) = 0 \dots 70 \ C \qquad \text{storage: -25 70 } ^{\circ}C $ Electrical connection $ (\% \ FSO) = 0 \dots 70 \ C \qquad \text{storage: -25 70 } ^{\circ}C $ Electrical connection $ (\% \ FSO) = 0 \dots 70 \ C \qquad \text{storage: -25 70 } ^{\circ}C $ Electrical connection $ (\% \ FSO) = 0 \dots 70 \ C \qquad \text$
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Housing stainless steel 1.4404 (316L) Seals FKM
Seals FKM
EDDM
EPDM
others on request
Diaphragm stainless steel 1.4435 (316L)
Protection cap POM
Explosion protection
Approvals IBExU 10 ATEX 1068 X / IECEx IBE 12.0027X
DX19-LMP 308 zone 0: II 1G Ex ia IIC T4 Ga zone 20: II 1D Ex ia IIIC T 85°C Da
Safety technical maximum values U _i = 28 V, I _i = 93 mA, P _i = 660 mW, C _i ≈ 0nF, L _i ≈ 0μH, the supply connections have an inner capacity of max. 27 nF to the housing
Ambient temperature range in zone 0: -20 60 °C with p _{atm} 0.8 bar up to 1.1 bar
in zone 1 or higher: -20 70 °C
Connecting cables capacitance: signal line/shield also signal line/signal line: 160 pF/m
(by factory) cable inductance: signal line/shield also signal line/signal line: 1µH/m
Miscellaneous
Option SIL® 2 application according to IEC 61508 / IEC 61511
Current consumption signal output current: max. 25 mA
Weight approx. 250 g (without cable)
Ingress protection IP 68
CE-conformity EMC Directive: 2014/30/EU
ATEX Directive 2014/34/EU

Stainless Steel Probe

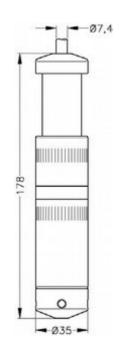
Technical Data



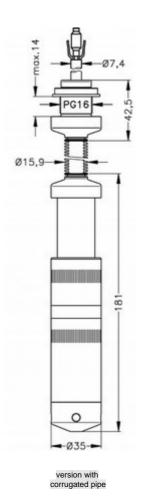
Pin configuration		
Electrical connection	Binder series 723 ° (5-pin)	cable colours (IEC 60757)
Supply +	3	wh (white)
Supply –	1	bn (brown)
Shield	5	gnye (green-yellow)
° in separated version		

Dimensions (in mm)

standard option



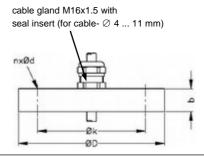




Total length of devices with accuracy 0.1 % FSO IEC 60770 increases by 16 mm! (standard, Ex-protection and SIL-version)

Stainless Steel Probe Accessories

Mounting flange	with cable gland				
Technical data					
Suitable for	all probes		cable gl		
Flange material	stainless steel 1.4404 (316L)		seal ins		
Material of cable gland	standard: brass, nickel plated on request: stainless steel 1.4305 (30)	3); plastic	nxØd		
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	-		
Ordering type		Ordering code			
DN25 / PN40 with ca	able gland brass, nickel plated	ZMF2540			
DN50 / PN40 with ca	able gland brass, nickel plated	ZMF5040			
DN80 / PN16 with ca	able gland brass, nickel plated	ZMF8016			



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Technical data		
Suitable for	all probes with cable Ø 5.5 10.5 mm	
Material	standard: steel, zinc plated optionally: stainless steel 1.4301 (304)	
Weight	approx. 160 g	
Ordering type		Ordering code

Ordering type	Ordering code
Terminal clamp, steel, zinc plated	Z100528
Terminal clamp, stainless steel 1 4301 (304)	7100527

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 70

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 308 **LMP 308** Pressure 4 4 0 4 4 1 in bar in mH₂O Input 1000 1600 2500 1.0 0.10 1.6 0.16 2.5 0.25 4.0 0.40 4000 0.60 6000 6.0 1 0 0 1 10 1.0 1601 16 1.6 25 2.5 2501 4001 40 4.0 60 6.0 6001 100 10 1002 1602 160 16 © 2015 BDISENSORS GmbH - The specifications given in this document represent the state of engineering at the time of publishing. We reserve the right to make modifications to the specifications and materials. 250 25 customer 9999 consult Stainless steel 1.4404 (316L) customer consult Diaphragm Stainless steel 1.4435 (316L) 1 customer 9 consult Output 4 ... 20 mA / 2-wire 1 Intrinsic safety 4 ... 20 mA / 2-wire SIL2 4 ... 20 mA / 2-wire Е 1S SIL2 with Intrinsic safety 4 ... 20 mA / 2-wire ES customer 9 consult 1 EPDM customer 9 consult Electrical connection PVC-cable 1 PUR-cable 2 FEP-cable 1 3 customer consult 9 Accuracy standard for P_N ≥ 0.4 bar 0.35 % 3 standard for P_N< 0.4 bar 0.5 % 5 option 1 for $P_N \ge 0.4$ bar 0.25 % 2 0.1 % 2 option 2 customer 9 consult Cable length 9 **9** standard 000 prepared for mounting 3 with stainless steel pipe 106 consult

cable protection with stainless steel corrugated pipe

with pipe length in m

customer

1 0 3

999

999

consult

consult

¹ cable with integrated air tube for atmospheric pressure reference

² not in combination with SIL

³ stainless steel pipe is not part of the supply