

TECHNICAL DATA

FLOW PRESSURE TEMPERATURE LEVEL



LMP 308i

Separable Stainless Steel Probe Precision

Stainless Steel Sensor

accuracy according to IEC 60770: 0.1 % FSO

Nominal pressure

from 0 ... 4 mH $_2$ O up to 0 ... 200 mH $_2$ O

Output signals

2-wire: 4 ... 20 mA 3-wire: 0 ... 10 V others on request

Special characteristics

- diameter 35 mm
- cable and sensor section separable
- ▶ excellent accuracy
- communication connection
- thermal error in compensated range
 -20 ... 70 °C: 0.2 % FSO
 TC 0.02 % FSO / 10K

Optional versions

- ▶ IS-version zone 0
- cable protection via corrugated pipe
- mounting accessories as cable gland and terminal clamp in stainless steel
- different kinds of cables
- different kinds of seal materials

The separable precision stainless steel probe LMP 308i is designed for continuous fill level and level measurement of water and liquid mediums. The signal processing of sensor signal is done by digital electronics with 16-bit analog digital converter. Consequently it is possible to conduct an active compensation of sensor intrinsic deviations from normal condions like nonlinearity and thermal error.

In order to facilitate stock-keeping and maintenance the transmitter body 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







Precision Stainless Steel Probe

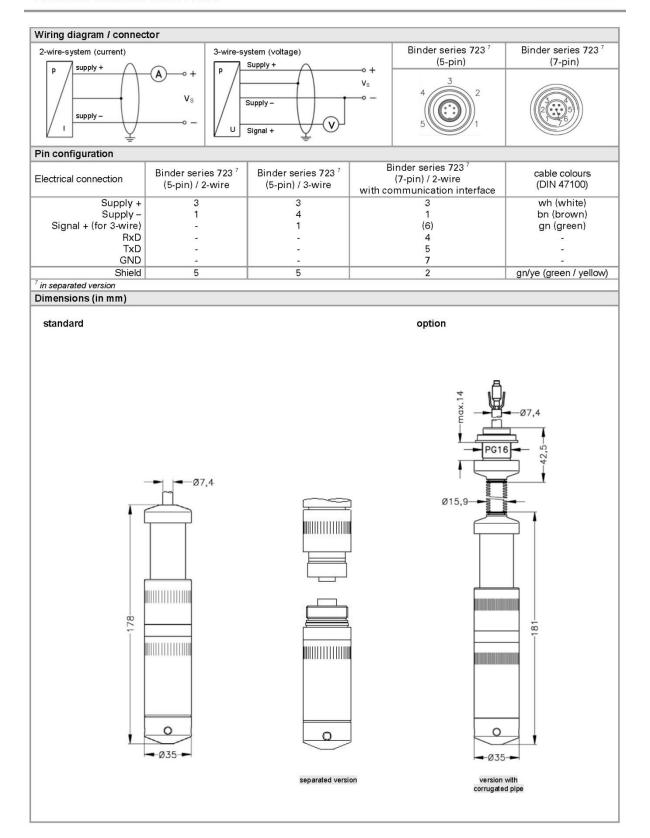
Input pressure range ¹ Nominal pressure gauge	[hor]	0.40	1	2	4	10	20		
	[bar]								
Level	[mH ₂ O]	4	10	20	40	100	200		
Overpressure	[bar]	2	5	10	20	40	80		
Burst pressure	[bar]	3	7.5	15	25	50	120		
On customer request we ad	ljust the devic	e within the turn-dowr	n-possibility by soft	ware on the requi	red pressure range				
Output signal / Supply									
Standard			$0 \text{ mA} / V_S = 1$		with RS-232 co	ommunication int	erface		
Option IS-protection		2-wire: 4 20 mA / V _S = 14 28 V _{DC}							
Options		3-wire: 0 10) V / V _S = 14	36 V _{DC}					
Performance									
Accuracy Performance after turn-down (TD) - TD ≤ 1:5 - TD > 1:5		IEC 60770 ² : ≤ ± 0.1 % FSO no change of accuracy ³ formula for accuracy calculating (for nominal pressure gauge ≤ 0.40 bar see note 3): ≤ ± [0.1 + 0.015 x turn-down] % FSO with turn-down = nominal pressure range / adjusted range e.g. follwing accuracy can be calculated for turn-down 1:10: ≤ ± (0.1 + 0.015 x 10) % FSO viz. the accuracy is ≤ ± 0.25 % FSO							
Permissible load		current 2-wire: voltage 3-wire:	$R_{max} = [(N_{min} = 10)]$	$I_{\rm S} - V_{\rm S min}$) / 0.03 $k\Omega$	2 Α] Ω				
Influence effects		supply: 0.05	% FSO / 10 V	load:	0.05 % FSO /	kΩ			
Long term stability		≤ ± (0.1 x turn-do	own) % FSO / ye	ar at reference	conditions				
Response time		ca. 200 msec							
Adjustability 2 accuracy according to IEC 6		electronic dampi offset: 0 90 %	following parameters can be adjusted (interface / software needed ⁴) electronic damping: 0 100 sec offset: 0 90 % FSO turn-down of span: max. 1:10						
³ nominal pressure gauges ≤ ≤ ± (0.1 + 0.02 x turn-down) ? ⁴ software, interface and cabl Thermal effects (Offset	% FSO e.g. to le must separa and Span)	rn-down 1:3: ≤± (0.1 ate be ordered (softwa	+ 0.02 x 3) % FS are is compatible w	O viz. the accurac vith Windows [®] 95,	y is ≤ ± 0.16 % FS(98, 2000, NT from		er and XP)		
Tolerance band	[% FSO]	≤ ± (0.2 x turn-do	wn) in co	ompensated ran	ge -20 70 °C				
TC [% F8	SO / 10 K]	± (0.2 x turn-dow			ge -20 70 °C				
		± (0.2 x turn-dow medium: -20 7	n) in co	ompensated ran		/ enviroment: -25	65 °C		
Permissible temperatures			n) in co	ompensated ran	ge -20 70 °C	/ enviroment: -25	65 °C		
Permissible temperatures Electrical protection ⁵		medium: -20 7	n) in co	ompensated ran	ge -20 70 °C	/ enviroment: -25	65 °C		
Permissible temperatures Electrical protection ⁵ Short-circuit protection		medium: -20 7	n) in co 0 °C stora	ompensated ran	ge -20 70 °C	/ enviroment: -25	65 °C		
Permissible temperatures Electrical protection ⁵ Short-circuit protection Reverse polarity protectio	on .	medium: -20 7 permanent no damage, but a	n) in co 0 °C stora	ompensated ran age: -25 70 º	ge -20 70 °C	/ enviroment: -25	65 °C		
Permissible temperatures Electrical protection ⁵ Short-circuit protection Reverse polarity protectio Electromagnetic compatib	on bility	medium: -20 7 permanent no damage, but a emission and imr	n) in co 0 °C store	ompensated ran age: -25 70 °	ge -20 70 °C C electronics		65 °C		
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LMP 308i

Precision Stainless Steel Probe

Accessories





LMP 308i

Precision Stainless Steel Probe

Technical Data

NA	cities and the colonial control					
Mounting flange w	vith cable gland					
Technical data		cable gland M16x1.5 with				
Suitable for		all probes				
Flange material		stainless steel 1.4404 (316L)				
Material of		standard: brass, nickel plated				
cable gland		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	0k			
DN80 / PN16	D = 200, k = 160, b = 20, n = 8, d= 18	4.8 kg	- 00 -			
Ordering type		Ordering code	Ordering code			
DN25 / PN40 with a	cable gland brass, nickel plated	ZMF2540				
DN50 / PN40 with o	cable gland brass, nickel plated	ZMF5040	ZMF5040			
DN80 / PN16 with o	cable gland brass, nickel plated	ZMF8016				
Terminal clamp						
Technical data			175			
Suitable for	all probes with cable Ø 5.5 10.5 mm		74-74			
Material	standard: steel, zinc plated optionally: stainless steel 1.4301 (304)		Cath			
Weight	approx. 160 g		RIO			
Ordering type		Ordering code	-			
Terminal clamp, ste	eel, zinc plated	Z100528				
Terminal clamp, sta	ainless steel 1.4301 (304)	Z100527	Z100527			
Display program						
CIT 200 Process display wit	h LED display					
CIT 250 Process display wit	th 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

Multichannel process display with graphics-capable LC display and datalogger

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 308i										
LMP 308i	ш-ш-п-п-п-п-п-ш-ш									
Pressure										
in bar in mH₂O	4 4 0 4 1									
Input [mH ₂ O] [bar]	4 4 1 1									
4.0 0.40	4 0 0 0									
10 1.0	4 0 0 0 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1									
20 2.0	2 0 0 1									
40 4.0	2 0 0 1 4 0 0 1 1 0 0 2									
100 10	1 0 0 2									
200 20	2 0 0 2 9 9 9									
customer	9 9 9 9	consult								
Housing Stainless steel 1.4404 (316L)	1									
customer	9	consult								
Diaphragm		CONSUM								
Stainless steel 1.4435 (316L)	1									
customer	9	consult								
Output										
4 20 mA / 2-wire	1									
Intrinsic safety 4 20 mA / 2-wire	E									
0 10 V / 3-wire	3									
customer	9	consult								
FKM	1									
EPDM	3									
customer	9	consult								
Electrical connection										
PVC-cable ¹										
PUR-cable 1										
FEP-cable ¹	3									
customer	9	consult								
Accuracy 0.1 % ²										
0.1 % customer	1	consult								
Cable length	3	Consult								
in m	9 9 9	consult								
Version	3 3 3 3	Jiloun								
standard	1 1 1									
with communicaton interface ³	1 2 1									
prepared for mounting 4	1 2 6	consult								
with stainless steel pipe										
cable protection with	1 2 3 9 9 9									
stainless steel corrugated pipe with pipe length in m	1 2 3 9 9 9	consult								
customer	9 9 9	consult								
customer	3 3 3	Consun								

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¹ cable with integrated air tube for atmospheric pressure reference
2 available on request: calibration of individual pressure range higher than 400 mbar with accuracy 0.1 %
3 Software, interface and cable have to be order separately (Ordering code: CIS-G; Software appropriate for Windows 95, 98, 2000, NT Version 4.0 or newer and XP)

⁴ stainless steel pipe is not part of the supply