



LMP 308i

Separable **Stainless Steel Probe** Precision

Stainless Steel Sensor

accuracy according to IEC 60770: 0.1 % FSO

Nominal pressure

from 0 ... 4 mH₂O up to 0 ... 200 mH₂O

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

water recycling

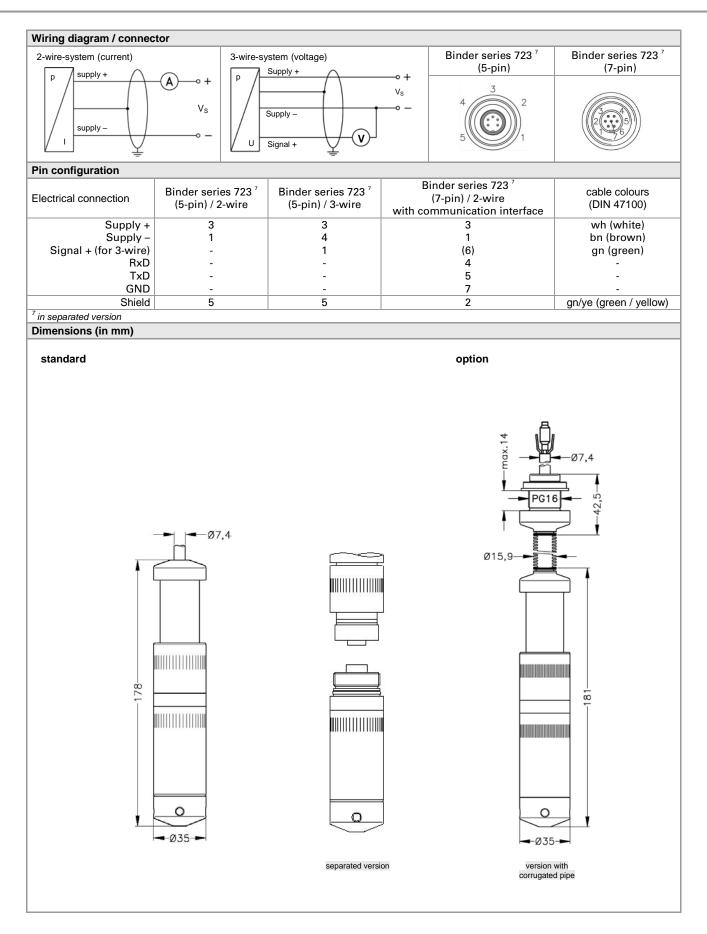
ground water level measurement level measurement in wells and open waters / rain spillway basin level measurement in container water treatment plants





Input pressure range ¹ Nominal pressure gauge		0.40	1	2	4	10	20	
1 0 0						-	-	
	[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	
¹ On customer request we a		e within the turn-dowr	n-possibility by soft	vare on the requir	ed pressure range.			
Output signal / Supply	1							
Standard		2-wire: 4 20 mA / V_s = 12 36 V_{DC} with RS-232 communication interface						
Option IS-protection		2-wire: 4 20 mA / $V_S = 14$ 28 V_{DC}						
Options		3-wire: 0 10	$V V / V_{\rm S} = 14$	36 V _{DC}				
Performance								
Accuracy Performance after turn-down (TD) - TD ≤ 1:5 - TD > 1:5		IEC 60770 ² : $\leq \pm 0.1$ % FSO no change of accuracy ³ formula for accuracy calculating (for nominal pressure gauge ≤ 0.40 bar see note 3): $\leq \pm [0.1 + 0.015 \text{ x turn-down}] \%$ FSO with turn-down = nominal pressure range / adjusted range						
		e.g. follwing accuracy $\leq \pm (0.1 + 0.015)$)		
Permissible load		current 2-wire:	R _{max} = [(V	$V_{\rm S} - V_{\rm Smin}) / 0.02$				
Influence effects		voltage 3-wire:	R _{min} = 10		0.05 % 500 /	×0		
				load:	0.05 % FSO / I	K12		
Long term stability		$\leq \pm (0.1 x turn-do$	wii) % FSU / ye	aı				
Response time		ca. 200 msec	tore can be adi	stad (interface)	coftwara naada	d ⁴)		
Adjustability 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								
 ² accuracy according to IEC ³ nominal pressure gauges ≤ ± (0.1 + 0.02 x turn-down) ⁴ software, interface and call 	≤ 0,40 bar are e) % FSO e.g. to	excluded; for these the rn-down 1:3: $\leq \pm (0.1)$	e calculation of acc + 0.02 x 3) % FS(uracy is as follows D viz. the accuracy	/ is ≤ ± 0.16 % FS0		er and XP)	
Thermal effects (Offse	t and Span)							
Tolerance band	[% FSO]	≤ ± (0.2 x turn-do	wn) in co	mpensated ran	ge -20 70 °C			
	<u> </u>	· ·	,					
TC [%]	FSO / 10 K]	± (0.2 x turn-dow	n) in co	mpensated ran	ge -20 70 °C			
		± (0.2 x turn-dow medium: -20 7	,	mpensated ran age: -25 70 °C	•	enviroment: -25	5 65 °C	
Permissible temperature			,	•	•	enviroment: -25	5 65 °C	
Permissible temperature Electrical protection ⁵		medium: -20 7	,	•	•	enviroment: -25	5 65 °C	
Permissible temperature Electrical protection ⁵ Short-circuit protection	es	medium: -20 7	0 °C stora	•	•	/ enviroment: -25	5 65 °C	
Permissible temperature Electrical protection ⁵ Short-circuit protection Reverse polarity protect	es	medium: -20 7 permanent no damage, but a	0 °C stora	age: -25 70 °C	•	[/] enviroment: -25	5 65 °C	
Permissible temperature Electrical protection ⁵ Short-circuit protection Reverse polarity protect Electromagnetic compar	es ion tibility	permanent no damage, but a emission and imr	0 °C stora	to EN 61326	c electronics /		5 65 °C	
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LMP 308i Precision Stainless Steel Probe



Mounting flange with	n cable gland					
Technical data						
Suitable for	all probes	cable gland M16x1.5 with				
Flange material	stainless steel 1.4404 (316L)	seal insert (for cable-Ø 4 11 mm)				
Material of	standard: brass, nickel plated					
cable gland	on request: stainless steel 1.4305 (303	nxØd				
Seal insert	material: TPE (ingress protection IP 68)					
Hole pattern	according to DIN 2507					
Version	Size (in mm)	Weight	م ا			
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	ØD			
Ordering type		Ordering code				
DN25 / PN40 with cab	le gland brass, nickel plated	ZMF2540				
DN50 / PN40 with cab	le gland brass, nickel plated	ZMF5040				
	ble gland brass, nickel plated	ZMF8016				
Terminal clamp						
Technical data						
Suitable for	all probes with cable \varnothing 5.5 10.5 mm					
Material						
	optionally: stainless steel 1.4301 (304)					
Weight	approx. 160 g		Provide the second seco			
Ordering type		Ordering code				
Terminal clamp, steel,	zinc plated	Z100528				
Terminal clamp, stainl	ess steel 1.4301 (304)	Z100527				
Display program						
CIT 200 Process display with L	ED display					
CIT 250 Process display with L						
CIT 300 Process display with LED display, contacts and analogue output						
CIT 350 Process display with L	ED display, bargraph, contacts and analog	ue output				
CIT 400 Process display with L	ED display, contacts, analogue output and	Ex-approval				
CIT 600 Multichannel process display with graphics-capable LC display						
CIT 650	display with graphics-capable LC display ar	35.65				
CIT 700 Multichannel process contacts	display with graphics-capable TFT monitor,					
PA 440 Field display with 4-dig	33.65 35.65					
For further information homepage: http://www	n please contact our sales department or vis v.bdsensors.com	it our				

www.bdsensors.com info@bdsensors.de





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

¹ cable with integrated air tube for atmospheric pressure reference

 $^{\rm 2}$ 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-Set 510; 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

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