





Precision Screw-in transmitter

Stainless Steel Sensor

accuracy according to IEC 60770: 0.1 % FSO

Nominal pressure

from 0 ... 400 mbar up to 0 ... 40 bar

Output signal

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

Product characteristics

- thermal error in compensated range -20 ... 80 °C: 0.2 % FSO TC 0.02 % FSO / 10K
- Turn-Down 1:10
- communication interface for adjusting of offset, span and damping

Optional versions

- **IS-versions** Ex ia = intrinsically safe for gases and dusts
- adjustment of nominal pressure gauges (factory-provided)

The precision screw-in transmitter LMP 331i demonstrate the further development of our industrial pressure transmitters.

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 and the transmitters with excellent maesurements and exeptionally attractive price to offer on the market.

Preferred areas of use are



Chemical / petrochemical industry



Environmental Engineering (water / sewage / recycling)



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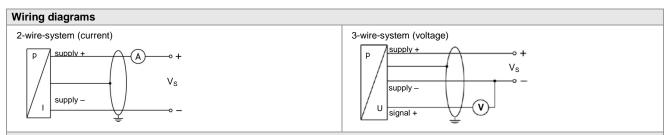
Pressure ranges LMP Nominal pressure								
gauge / absolute	[bar]	0.4	1	2	4	10	20	40
_evel gauge	[mH ₂ O]	4	10	20	40	100	200	400
Overpressure	[bar]	2	5	10	20	40	80	105
Burst pressure	[bar]	3	7.5	15	25	80	120	210
On customer request we		ce within the tu	rn-down-possibi	lity by software o	n the required pr	essure range.	-	
,			,					
Output signal / Supply	/	2 1	00 1	.,				
Standard				$V_S = 12 36 V_S$				
Option IS-protection				V _S = 14 28 V				
Options analog signal		3-wire: 0	. 10 V /	ommunication in $V_S = 14 36 V_S$	DC _			
only possible with el. con	nection Binder							
Performance		· ,						
Accuracy		IEC 60770 3:	≤ ± 0.1 % FSO	1				
performance after turn-do	own							
- TD ≤ 1:5	J	no change of	accuracy 4					
- TD > 1:5		•	•	ing formula (for	nominal pressu	re ranges < 0 /	10 bar see note 4	١٠
			15 x turn-down		nominal pressu	ie ranges = 0	to bar see note 4)-
		-		essure range / a	diusted range			
					racy is calculate	d·		
					is ≤ ± 0.25 % F			
Permissible load		current 2-wire		. – V _S min) / 0.02			_{min} = 10 kΩ	
Influence effects			$R_{\text{max}} = [(VS)]$		z Aj tz Volta loa		$FSO / k\Omega$	
Long term stability) / year at refere		u. 0.05 % i	-30 / KS2	
Response time		approx. 5 mse		77 year at refere	rice conditions			
Adjustability		- 1		ramatara naccih	le (interface / so	ftware people	on, 5).	
Adjustability			amping: 0 10		ie (iiileiiace / sc	ntware necess	ary <i>)</i> .	
⁴ except nominal pressure ≤ ± (0.1 + 0.02 x turn-dow	rangeș ≤ 0 .40 vn) % FSO e.a.	- turn down o point adjustment bar; for these of turn-down of 1.	f span: max. 1: nt (non-linearity, valculation of acc $:3: \le \pm (0.1 + 0.0)$, hysteresis, repe curacy is as follo 02 x 3) % FSO i.	vs: e. accuracv is ≤ :	± 0.16 % FSO	on 40 or higher o	ad VDI
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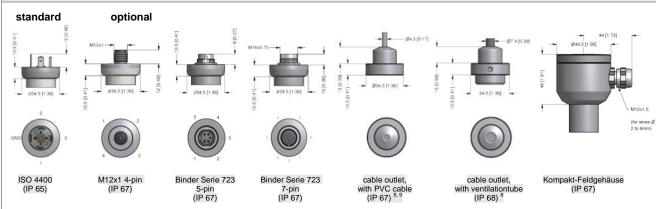
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Pin configuration ISO 4400 Binder 723 Binder 723 M12x1/ metal cable colours Electrical connections field housing (4-pin) (IEC 60757) (5-pin) (7-pin) IN + supply + 3 3 wh (white) supply -2 4 2 IN bn (brown) OUT+ signal + (only for 3-wire) 3 6 3 gn (green) gnye shield ground pin 5 2 4 (green-yellow) Communication RxD4 interface TxD 5 GND

⁷ may not be transmitted directly with the PC (the suitable adapter is available as accessory)

Electrical connections (dimensions in mm / inch)



universal-Fieldhousing stainless steel 316L with cable gland M20x1,5 (ordering code 880) and other versions on request

 8 different cable types and lengths available, permissible temperature depends on kind of cable 9 standard: 2 m PVC cable (without ventilation tube, permissible temperature: -5 ... 70 °C)

Mechanical connection (dimensions in mm / inch)



Windows® is a registered trade mark of Microsoft Corporation

pressure measurement

DMPi LMP331i E 290716



	Ordering code	LMP 3311		
LMP 331i			. 🗆 - 🔲	
ressure in bar 4	3.0			
in mH ₂ O 4 put [mH ₂ O] [bar]	3 0 3 1			
4 0.40 10 1.0	4 0 0 0 1			
20 2.0 40 4.0	2 0 0 1			
100 10	1 0 0 2			
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ectrical connection Male and female plug ISO 4400	9	100		consult
Male plug Binder series 723 (5-pin)		1 0 0 2 0 0		
Compact field housing stainless steel 1.4404 (316L)		8 5 0		
Male and female plug Binder series 723 (7-pin)		A 0 0		
Male plug M12x1 (4-pin) / metal for analog output		M 1 0		
Male plug M12x1 (4-pin) / metal for digital output		M 1 3		
Cable outlet with PVC cable ¹ Cable outlet ²		T A 0 T R 0		
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G3/4" DIN 3852 with flush sensor customer		K 0 0 9 9 9		consult
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¹ standard: 2 m PVC cable without ventilation tube (permissible temperature: -5 ... 70 °C), optionally cable with ventilation tube ² cable with ventilation tube (code TR0 = PVC cable), different cable types and lengths available, price without cable ³ RS-232 interface only possible with el. connection Binder serie 723 (7pin)

Software, Interface and cable for LMP 331i with option RS-232 have to be order separately (Ordering code: CIS-G; Software appropriate for Windows $^{\scriptsize \scriptsize (0)}$ 95, 98, 2000, NT Version 4.0 or newer and XP)