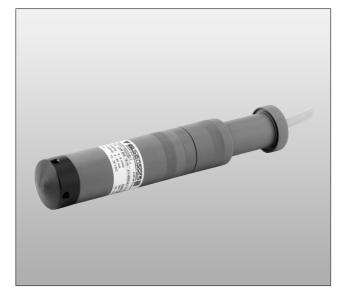


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# Plastic Submersible Transmitter

- piezoresistive stainless steel sensor
- diameter 35 mm
- transmitter head and cable assembly plugged
- nominal pressure ranges from 0 ... 40 mbar up to 0 ... 10 bar (0 ... 40 cmWC up to 0 ... 100 mWC)

The LMP 808 plastic submersible transmitter is suited for continuous level measurement of liquids.

In order to facilitate stock-keeping and maintenance the transmitter head is plugged to the cable assembly with a connector. If needed the transmitter can be changed easily, without expensive electrical and mechanical installation work.

Due to the additional possibility of cable protection and different mounting alternatives the LMP 808 represents a submersible transmitter for a wide range of applications.

Our application engineers would like to assist you in selecting the best combination suited for your specific application.

Preferred areas of use are:

- environmental engineering: water treatment
- depth or level measurement in wells and open waters
- ground water level measurement
- level measurement in open tanks



- excellent linearity
- good long term stability
- accuracy according to IEC 60770: 0.35 % FSO option: 0.25 % FSO
- customer specific versions:
  - special pressure ranges



Characteristics





Input pressure ran	ge												-
Nominal pressure gauge [ba	0.04	0.06	0.1	0.16	0.25	0.4	0.6	1	1.6	2.5	4	6	10
Level [mW0	0.4	0.6	1	1.6	2.5	4	6	10	16	25	40	60	100
Permissible overpressure [ba	0.2	0.2	0.5	0.5	1	1	3	3	6	6	20	20	20

Output signal / Sup	pply
Standard	2-wire: 4 20 mA / $V_s = 12$ 36 $V_{DC}$

Performance				
Accuracy 1	standard: nominal pressure $\leq$ 0.4 bar: option (nominal pressure > 0.4 $\leq$ $\pm$ 0.125 % FSO)	$\leq$ ± 0.35 % FSO $\leq$ ± 0.5 % FSO bar):	(BFSL: $\leq \pm 0.175 \%$ (BFSL: $\leq \pm 0.25 \%$ $\leq \pm 0.25 \%$ FSO	•
Permissible load	$R_{\scriptscriptstylemax} = \left[ \left( V_{\scriptscriptstyleS} - V_{\scriptscriptstyleS\scriptscriptstylemin} \right)  /  0.02 \right]  \Omega$			
Influence effects	supply: 0.05 % FS0 load: 0.05 % FS0			
Long term stability	$\leq$ ± 0.1 % FSO / year			

Thermal effects					
Nominal pressure P <sub>N</sub>	≤ 0.1 bar	≤ 0.25 bar	≤ 0.4 bar	≤1 bar	> 1 bar
Tolerance range	≤±2 % FSO	≤ ± 1.5 % FSO	≤±1 % FSO	≤±1% FSO	≤ ± 0.75 % FSO
for offset and span					
in compensated range		0 50 °C		0	70 °C

Electrical protection <sup>2</sup>			
Insulation resistance	> 100 MΩ		
Reverse polarity protection	no damage, but also no function		
Electromagnetic compatibility	emission and immunity according to EN 61326		

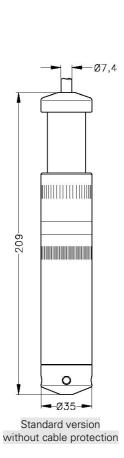
Permissible temperatures				
Medium	0 50 °C			
Storage	-10 50 °C			

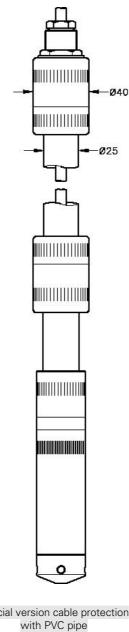
<sup>-</sup>

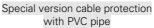
<sup>&</sup>lt;sup>1</sup> accuracy according to IEC 60770 – limit point adjustment (non-linearity, hysteresis, repeatability)

additional external overvoltage protection unit in terminal box KL1 or KL2 with atmospheric pressure reference available on request (please ask for data sheet)

# Dimensions









Transmitter head and cable assembly plugged

Electrical connection				
Cable with sheath material <sup>3</sup>	PVC grey PUR black FEP black			
Cable protection	standard: without cable protection optional: prepared for mounting of a PVC pipe with diameter 25 mm			

<sup>&</sup>lt;sup>3</sup> cable with integrated air tube for atmospheric pressure reference

# Plastic Submersible Transmitter

Materials	
Housing	PVC grey
Seals	FKM / EPDM
Diaphragm	stainless steel 1.4435 (316L)
Cable sheath	PVC / PUR / FEP

Miscellaneous	
Current consumption	max. 25 mA
Ingress protection	IP 68
Weight	400 g (without cable)

Mounting accessories (not part of delivery)
Screw fitting, of PVC
Terminal clamp, of stainless steel 1.4301 (304) or steel, zinc plated

Pin config	guration	
Electrical conne	ction	Cable colours
		(DIN 47100)
2-wire-system	Supply +	white
	Supply –	brown
	Ground	cable shield

### Wiring diagram

### 2-wire-system (current)

