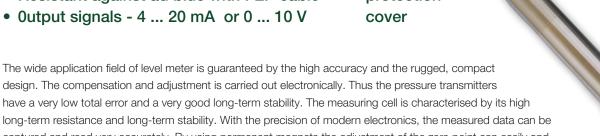
Level meter - EPT-LM



- Measuring range
 - 0...100 mbar up to 0...25 bar
- Robust construction
 - Stainless steel wetted parts
 - Stainless steel case (316L)
 - Protection category IP 68
- PUR cable (standard), FEP cable (optional)
- Resistant against ad blue with FEP cable
- Output signals 4 ... 20 mA or 0 ... 10 V

- Measuring system
 - Sensor stainless steel membrane
 - Piezo resistive silicon sensor
 - System filling silicon oil
- Flush diaphragm with POM protection



design. The compensation and adjustment is carried out electronically. Thus the pressure transmitters have a very low total error and a very good long-term stability. The measuring cell is characterised by its high long-term resistance and long-term stability. With the precision of modern electronics, the measured data can be captured and read very accurately. By using permanent magnets the adjustment of the zero point can easily and securely be done at any time.

EPT-LM Specification

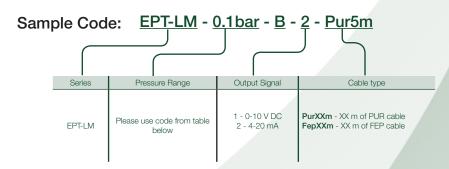
Standard pressure ranges *) (bar)	00.1 / 00.16 / 00.25 / 00.4 / 00.6 / 01 / 01.6 02.5 / 04 / 06 / 010/ 016/ 025			
Over pressure (bar) *)	2 x - depending on pressure range			
Burst pressure (bar) *)	3 x - depending on pressure range			
Kind of pressure	Gauge pressure (air tube with Goretex filter)			
Wetted parts	Stainless steel			
Weight (g)	Depending on construction			
Supply voltage	1432 VDC			
Output signals and max. load	420 mA, 2 wire $R_A \le (U_B$ -12V) / 20mA 010V, 3 wire $R_A > 10 \text{ k}\Omega$			
Adjustability of zero	Straightforward zero correction by using a magnet or via interface and PC programming kit			
Accuracy **)				
Non-linearity ***)	≤ 0.3% FS of nominal range EN 60770-1			

Repeatability	≤ 0.1% FS			
Long-term stability	≤ 0.1% FS 1-year stability at reference conditions			
Permissible temperatures Media temperature Ambient temperature Storage temperature	-10+ 70°C -10+ 70°C -20+ 100°C			
CE-conformitiy Pressure equipment directive EMC directive	97/23/EG 89/336/EEC emission (class B) immunity according to EN61326			
Shock resistance	100 g to IEC 60068-2-27 mechanical			
Vibration resistance	20 g to IEC 60068-2-6 resonance			
Wiring protection Overvoltage Short-circuit strength Reverse polarity	32 VDC Out+ / U _g (for 1s) For power supply			

- Others on request
- Special custom design with optional better accuracy on request
- Integral linearity error (FS = Full Scale, BFSL = Best Fit Straight Line)

Ordering Information

(Please use the characters in the chart below to construct your product code)



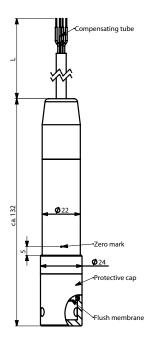
					Press	sure Ra	inge						
Bar	0.1	0.16	0.25	0.4	0.6	1.0	1.6	2.5	4.0	6.0	10.0	16.0	25.0
Order Code	0.1	0.16	0.25	0.4	0.6	1.0	1.6	2.5	4.0	6.0	10.0	16.0	25.0



Level meter - EPT-LM

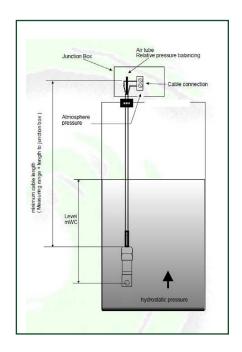


Dimensions and wiring



Connection					
Output		Colour code			
420 mA	2 wire	Brown = - White = +			
0-10 V DC	3 wire	Brown = - White = + Yellow = signal			

Application set-up



Magnetic pen Zero point on label

Zero correction

The zero can be set easily with a magnet within \pm 10% of the nominal range.

To correct the zero point, hold a permanent magnet – a pin board magnet, for example – at the position marked on the pressure transmitter (i.e. a letter in a circle) for ⅓ to 2 ⅓ minutes after the power has been switched on. To correct the zero, atmospheric pressure is applied. Offsets for previously set values for initial and ultimate pressures will be corrected automatically by the device. A magnetic field applied outside of this time period has no effect on the setting. The power must be switched off and on before the zero point can be set again.

Safety information

During installation, putting into service and operation of these pressure sensors, it is necessary to observe the relevant safety regulations that are in force in the country of the user (as for example, DIN VDE 0100).

