Type UPA2-LMP 307

Hydrostatic Level Measurement 1 mWC up to 160 mWC

The UPA2-LMP 307 level transmitter is suited for continuous fluid level measurement.

It can be used even in more viscous media as for example sludges - one simply has to remove the protective cap creating a flush diaphragm.

The design of the transmitter is marked by miniaturisation of mechanical parts and thus by small dimensions.

Features

- Measuring range 0...1 mWC up to 0...160 mWC
- Output Signals 4...20 mA / 2-wire or 0...10 V / 3-wire
- High accuracy acc. to IEC 60770 0,25% / 0,35% FSO
- High resistance against electrical faults caused by incorrect wiring, short-circuit, and overvoltage
- Cable with integrated air tube for atmospheric reference
- Flush diaphragm by simply removing the protective cap
- Option: II 1 G EEx ia IIC T4

Applications

- Environmental technology: sewage treatment, water supply
- Depth or level measurement in wells and open open waters
- Ground water level measurement
- Level monitoring in open tanks



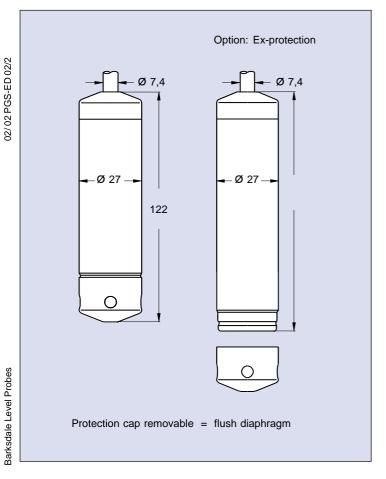


Input Pressure	Range Press. Range P _N [bar] gauge Filling Heigth [mWC] Overpressure Pmax [bar]	0.1 1.0 1	0.25 2.5 1	0.4 4 1	0.6 6 4	1.0 10 4	1.6 16 8	2.5 25 8	4 40 8	6 60 28	10 100 28	16 160 30	
Supply	Voltage [VDC]	12 36, option Ex-protection: 12 28						•					
Output Signal		e-Syste nt: 4											
Performance Accuracy according to IEC 60 Standard Permissible Load $[\Omega]$ Influence Effects			770 - Limit Point Adjustment (Nonlinearity, Hysteresis, Repeatability): $ \leq \pm 0.35\% \text{FSO} \text{ (Nominal Press. } 0.1 \dots 0.4 \text{bar} \leq \pm 0.5\% \text{FSO)}, \\ \text{Optional (PN } > 0.4 \text{bar}): \leq \pm 0.25\% \text{FSO} \\ \text{Current 2-Wire: } \text{[UB (V) - } 12V] / 0.02 \text{A} \\ \text{Supply: } \leq \pm 0.05\% \text{FSO} / 10 \text{V, Load: } \leq \pm 0.05\% \text{FSO} / \text{k}\Omega $										
Option Ex-prot	ection II 1 G EEx ia CII T4	Safety relevant data: Ui = 28 V; Ii = 93 mA; Pi = 660 mW											
Thermal Effects Nominal Pressure P _N [bar] Tolerance Band Offset + Span [± %FSO] Compensated Range [°C]			0.1 0.25 0.4 0.6 1.0 1.6 2.5 4 6 10 16 < 2.0										
Electrical Conn	ection	Cable	with in	tegrate	ed air tu	be for	atmosp	heric r	eferen	ce, PVC	C-/PUR-	/FEP-S	Sheath
Temp. Ranges Medium [°C] Storage [°C]		-10 70 -25 70											
Materials Housing Diaphragm Sealings Cable Sheath			Stainless steel 1.4305 Stainless steel 1.4404 Viton (FKM) PVC grey / PUR black / FEP										
Miscellaneous	Current Consumption Ingress Protection Weight												

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Type UPA2-LMP 307

Dimensions (in mm)



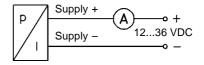
Connection chart

Wiring	Electrical connecetions Cable colours acc. to DIN 47100
2-wire system: Supply + Supply - Earth	white brown Cable shield

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Electrical connection

2-wire: 4...20 mA



Order number example

Туре	Series	Unit	Measuring range	Output signal	Accuracy	Electrical connection	Cable length
UPA2	LMP 307	bar	1000	1	5	1	005

Your order number

UPA2	LMP 307						

Unit		uring raı [mWC]		Output signal	Accuracy	Electrical connection	Cable length [m]
bar mWC	0,1 0,25 0,4 0,6 1,0 1,6 2,5 4,0 6,0 10	1,0 2,5 4,0 6,0 10 16 25 40 60 100 160	1000 2500 4000 6000 1001 1601 2501 4001 6001 1002 1602	(1) 4 20 mA 2-wire (E) 4 20 mA 2-wire Ex-protection II 1 G EExia IIC T4	 (3) 0,35% Standard (5) Option 0,5% (at PN ≤ 0,4 bar) (2) Option 0,25% (at PN > 0,4 bar) 	(1) PVC-cable(2) PUR-cable(3) FEP-cable	XXX (e. g.: 5 m = 005)

Specifications are subject to changes without notice.

Barksdale