Submersible Level Transmitter
made out plastic, for aggressive media, ø 40 mm

Type UPA2-LMK 858

Capacitive Ceramic Sensor
Hydrostatic Level Measurement
1 mWC up to 10 mWC

The level transmitter UPA2-LMK 858 has been developed for continuous level measure-ment above all in aggressive media as acids and lyes. These extreme operation conditions are possible by using plastics highly resistant against chemicals.
Utilization in more viscous media as for example sludge is possible because of the flush diaphragm.

For sealing and cable different materials are available. A cable protection, available in two versions, is essential for application of the LMK 858 in aggressive media.

Features
- ceramic pressure sensor, high accuracy
- high resistance against electrical faults caused by incorrect wiring, short-circuit and overvoltage
- cable with integrated air tube for atmospheric reference
- transmitter and cable assembly plugged
- use in more viscous media possible due to flush diaphragm
- different mounting alternatives

Applications
- environmental technology: sewage treatment, water supply
- level measurement in open tanks with aggressive liquids
- chemical and pharmaceutical industries
- galvanic coating

Technical Data

Input Pressure Range	Press. Range PN [bar] gauge	0,06 0,1 0,25 0,4 0,6 1 1,6 2,5 4 6 10
	Filling Height FH [mWC]	0,6 1,0 2,5 4 6 10 16 20 40 60 100
	Overpressure Pmax [bar]	2 2 2 4 4 7 7 15 25 25 40
Supply	Voltage [VDC]	12 ... 36
Output Signal	Standard:	2-Wire System, current: 4 ... 20 mA
Performance	Accuracy according to IEC 60770 - Limit Point Adjustment (Nonlinearity, Hysteresis, Repeatability):	
	Standard	≤ ± 0.35% FSO
	Permissible Load [Ω]	Current 2-Wire: [UB (V) - 12V] / 0.02 A
	Influence Effects Supply :	≤ ± 0.05% FSO / 10 V, Load: ≤ ± 0.05% FSO / kΩ
Thermal Effects		Tolerance Band Offset and Span within Compensated Range: 0 ... 70°C: < ± 1.0 % FSO
Electrical Connection		Cable with integrated air tube for atmospheric reference PVC-/PUR-/FEP-Sheath Other cable types on request
Temp. Ranges	Medium [°C]	0 ... 50 °C
	Storage [°C]	-10 ... 50 °C
Cable Protection		Standard: without; Special: PP-pipe (flexible), PVC-pipe (hard)
Materials	Housing	PVC Grey
	Diaphragm	Ceramics Al2O3 96 % / Option: PTFE foil
	Sealing	Viton (FKM) / Option: EPDM
	Cable Sheath	PVC Grey / PUR Black / FEP
Miscellaneous	Current Consumption	< 30 mA
	Ingress Protection	IP68 (DIN 40 050)
	Weight	approx. 400 g (without cable)
Accessories		Mounting flange PVC Grey DN10 / PN10; Mounting clamp PVC

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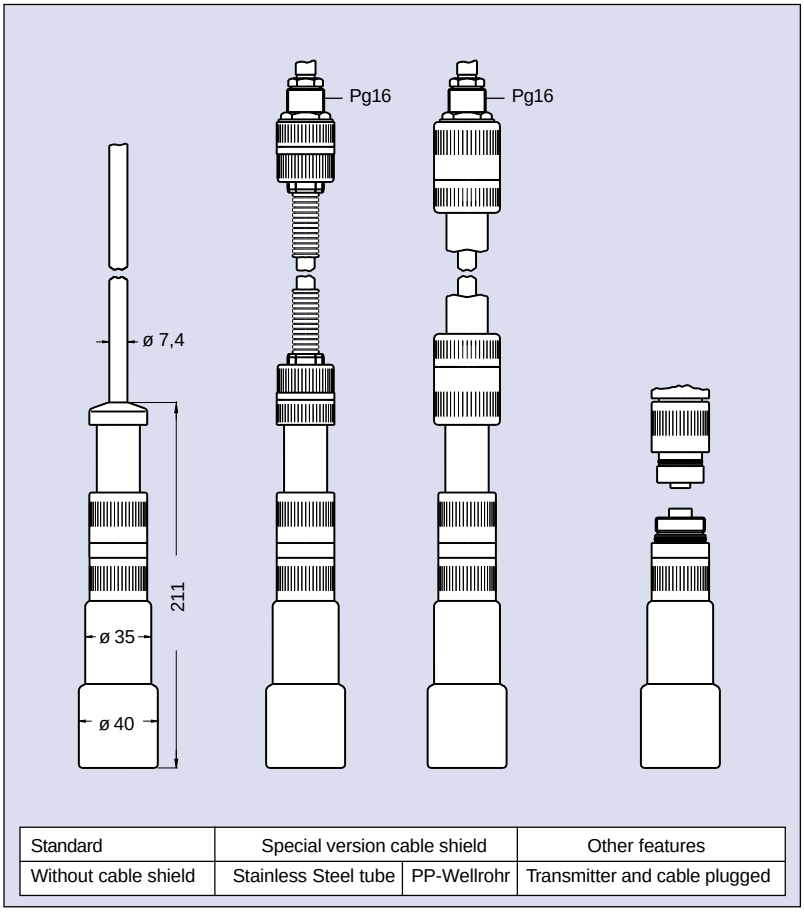
Dimensions (in mm)



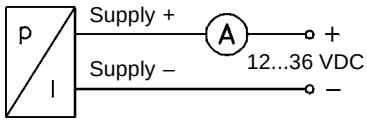
Standard	Special version cable shield		Other features
Without cable shield	Stainless Steel tube	PP-Wellrohr	Transmitter and cable plugged

Connection chart

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

Electrical connection

2-wire: 4...20 mA



Order number example

Type	Series	Unit	Measuring range	Output signal	Sealing	Electrical connection	Cable length	Options
UPA2	LMK 858	bar	1000	1	1	1	005	

Your order number

UPA2	LMK 858							

Unit	Measuring range [bar]	[mWC]		Output signal	Sealing	Electrical connection	Cable length [m]	Options
bar mWC	0,06 0,1 0,25 0,4 0,6 1,0 1,6 2,5 4,0 6,0 10	0,6 1,0 2,5 4,0 6,0 10 16 25 40 60 100	0600 1000 2500 4000 6000 1001 1601 2501 4001 6001 1002	(1) 4... 20 mA 2-wire	(1) Viton (3) EPDM	(1) PVC-cable (2) PUR-cable (with air tube) (3) FEP-cable	XXX (e. g.: 5 m = 005)	(2) Cable shield PP-Wellrohr (6) Cable shield PVC-Wellrohr