





LMK 858

Plastic Submersible Transmitter

- capacitive ceramic sensor
- ▶ diameter 39.5 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 level transmitter LMK 858 has been developed for continuous level measurement in aggressive media. Basic element is a capacitive ceramic sensor.

Usage in more viscous media as for example sludge is possible because of the semi-flush diaphragm.

For seals and cable different materials are available. 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.

Different mounting versions make adaption to construction and other on-site conditions easy.

Preferred areas of use are:

- level monitoring in open tanks with low filling heights
- depth or level measurement in wells and open waters
- ground water level measurement
- sewage treatment, water supply
- ▶ chemical and pharmaceutical industries

good long term stability

accuracy acc. to IEC 60770: 0.35 % FSO option: 0.25 % FSO

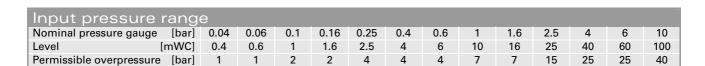
- cable protection with PVC pipe possible
- customer specific versions:
 - special pressure ranges
 - other versions on request

 ϵ

Characteristics

LIVIN 656 Plastic Submersible Transmitter





Output signal /Supply			
Standard	2-wire:	$4 20 \text{ mA} / V_s = 9 36 V_{DC}$	

Performance					
Accuracy 1	standard: option:	≤± 0.35 % FSO ≤± 0.25 % FSO	•	≤± 0.175 % FSO) ≤± 0.125 % FSO)	
Permissible load	$R_{\text{max}} = [(V_{\text{S}} - V_{\text{S in}})]$	$_{ extstyle nin})$ / 0.02] Ω			
Influence effects	supply: load:	0.05 % FSO / 10 0.05 % FSO / kΩ			
Long term stability	≤ ± 0.1 % FSO /	year /			

Thermal effects			
Tolerance range for offset and span	≤±0.1 % FSO / 10 K		
in compensated range	0 70 °C		

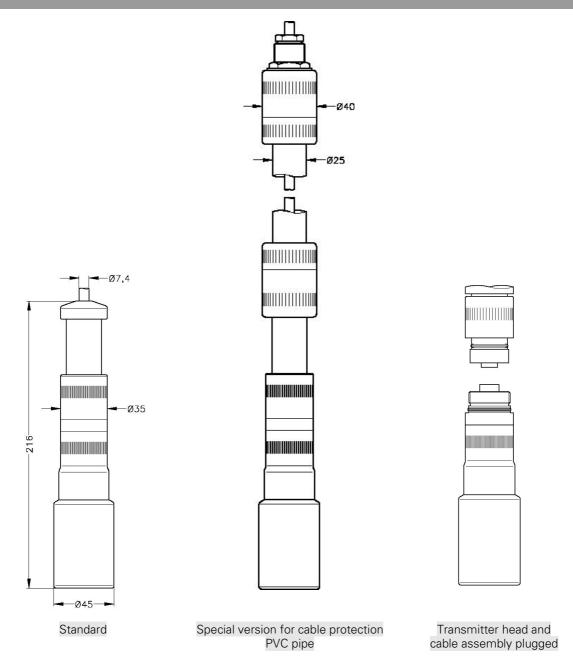
Electrical protection ²		
Insulation resistance	> 100 MΩ	
Reverse polarity protection	no damage, but also no function	
Electromagnetic compatibility	emission and immunity according to EN 61326	

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

¹ accuracy according to IEC 60770 – limit point adjustment (non-linearity, hysteresis, repeatability)

² additional external overvoltage protection unit in terminal box KL1 and KL2 with atmospheric pressure reference available on request (please ask for data sheet)

Dimensions



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

 $^{^{\}mbox{\scriptsize 3}}$ cable with integrated air tube for atmospheric pressure reference

Plastic Submersible Transmitter

Technical Data

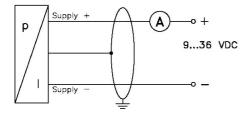
Materials			
Housing	PVC grey		
Seals	FKM	others on request	
Diaphragm	ceramic Al ₂ O ₃	ceramic Al ₂ O ₃ 96 %	
Cable sheath	PVC / PUR / FE	P	

Miscellaneous	
Current consumption	max. 21 mA
Ingress protection	IP 68
Weight	approx. 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 configuration			
Electrical conne	ction	cable colours (DIN 47100)	
2-wire-system	Supply +	white	
	Supply –	brown	
	Ground	yellow / black	

Wiring diagram





INGENIEROS ASOCIADOS DE CONTROL, S. L. Telf. 913831390

comercial@iac-sl.es