



LMK 858

Detachable Plastic Submersible Probe

Ceramic Sensor

accuracy according to EN IEC 62828-2: standard: 0.35 % span option: 0.25 % span

Nominal pressure

from 0 ... 40 cmH₂O up to 0 ... 100 mH₂O

Output signals

2-wire: 4 ... 20 mA 3-wire: 0 ... 10 V others on request

Special characteristics

- ▶ diameter 45 mm
- cable and probe detachable
- chemical resistance
- housing PP-HT

Optional versions

- cable protection via PVC pipe
- diaphragm 99.9 % Al₂O₃
- different kinds of cable
- different kinds of seal materials
- cable protection on request

The detachable plastic submersible probe LMK 858 is designed for level measurement in most aggressive media. Usage in more viscous media as for example sludge is possible because of the semiflush diaphragm.

In order to facilitate stock-keeping and maintenance the transmitter head is plugged to the cable assembly with a connector and can be changed easily.

Preferred areas of use are



<u>Sewage</u> waste water treatment water recycling dumpsite



<u>Aggressive media</u> level measurement in most of acids and lyes





BD SENSORS s.r.o. Hradišťská 817 CZ – 687 08 Buchlovice

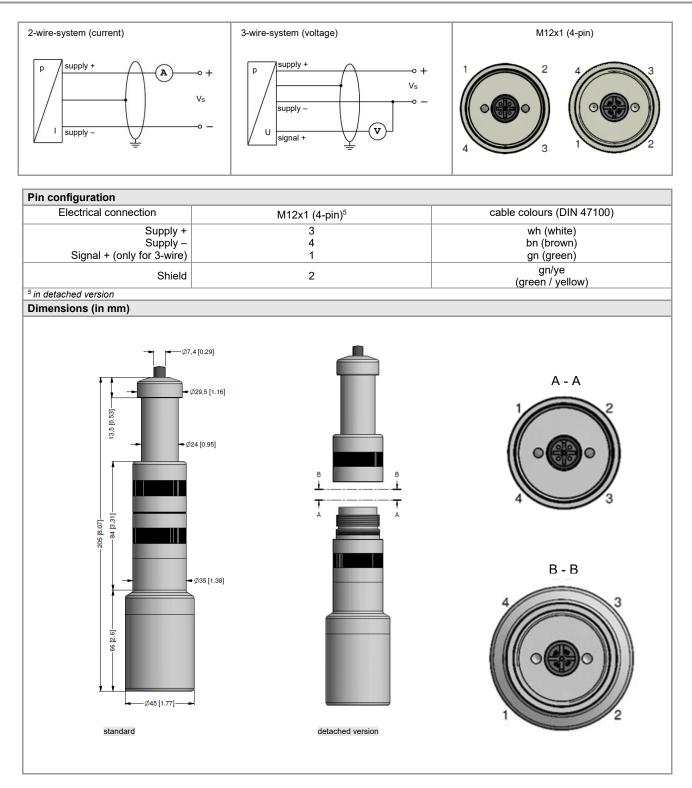
Tel.: +420 572 411 011

www.bdsensors.cz info@bdsensors.cz



The company BD SENSORS s.r.o. is certified by TÜV SÜD Czech according to the standard ISO 9001.

Input pressure range													
	[bar] 0.04	0.06	0.1	0.16	0.25	0.4	0.6	1	1.6	2.5	4	6	10
Level [ml	H ₂ O] 0.4	0.6	1	1.6	2.5	4	6	10	16	25	40	60	100
Overpressure	[bar] 2	2	4	4	6	6	8	8	15	25	25	35	35
max. ambient pressure (housi	ng) 10 bar												
Output signal / Supply													
Standard	2-wire	·	20 mA	/ V _s = 9	9 32 \		ption 3-	wire [.]	0	10 V / Va	= 12.5	32 V _c	20
Performance	2 1110			., •5	5 OL 1				•	10 1 / 13	, 12.0	02 1	50
Accuracy ¹													
standard: $\leq \pm 0.35$ % span													
option: $\leq \pm 0.25 \%$ span													
Permissible load $R_{max} = [(V_s - V_{S min}) / 0.02 A] \Omega$													
Influence effects	ence effects supply: 0.05 % span / 10 V load: 0.05 % span / kΩ												
Long term stability Turn-on time	≤±0. 700 m		i year										
Mean response time	< 200						m	easuring	1 rate 5/	sec			
Max. response time	380 m							Sasunny	j rate J/	300			
¹ accuracy according to EN IEC 62			ment (no	n-linearit	v. hystere	esis, repe	atabilitv)						
Thermal effects (Offset and					,,,	,	, ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,						
Thermal error	• /	l % span	/ 10 K										
		pensate		050	°C								
Permissible temperatures													
Permissible temperatures	Mediu	m/ electr	onics/ e	nvironm	nent/ sto	prage: -2	0 80	°C *					
*If the cable is intended for use in a						<u> </u>							
Electrical protection ²			J • / • •					<u> </u>					
Short-circuit protection	nerma	nent											
Reverse polarity protection		permanent no damage, but also no function											
Lightning protection		2-wire: integrated 3-wire: without											
Electromagnetic compatibility emission and immunity according to EN 61326													
² additional external overvoltage pr								reference	e availabl	le on requ	lest		
Electrical connection													
Cable with sheath material ³	PVC (-5 70 °C) grey (-25 70 °C in fixed condition) Ø 7,4 mm PUR (-25 80 °C) black (with drinking water certificate) Ø 7,4 mm FEP ⁴ (-25 75 °C) black Ø 7,4 mm												
Cable capacitance	signal	line/shie	ld also :	signal lir	ne/signa	al line: 16	60 pF/m						
Cable inductance													
Bending radius		nstallatio						lication:	20-fold	cable d	iameter		
³ cable with integrated air tube for a													
⁴ do not use freely suspended prob Materials (media wetted)	bes with an FEF	caple if e	errects du	ie to high	iy chargi	ng proce	sses are	expected	1				
Housing	PP-HT	-											
Seals		FKM / EPDM / others on request											
Diaphragm standard: ceramics Al ₂ O ₃ 96 % option: ceramics Al ₂ O ₃ 99.9 %													
Cable sheath	PVC, I	PUR, FE	P, othe	rs on red	quest								
Miscellaneous													
Option cable protection (on request)		ed for m ard: pipe						ailable a	s compa	act prod	uct		
Current consumption	max. 2				5 1 1		,						
			without	cable)									
Weight	approx	(. 400 g i	without										
Weight Ingress protection	approx IP 68	c. 400 g (without										
5	IP 68	Directive:											



Accessoies

Assembling flange	with cable gland									
Technical Data										
Suitable for	all probes	all probes								
Flange material	stainless steel 1.4404 (316L)	stainless steel 1.4404 (316L)								
Material of cable gland	standard: brass, zinc plated on request: stainless steel 1.4305 (303); p	standard: brass, zinc plated on request: stainless steel 1.4305 (303); plastic								
Seal insert	material: TPE (ingress protection IP 68)	material: TPE (ingress protection IP 68)								
Hole pattern	according to DIN 2507	according to DIN 2507								
Version	Size (in mm)	Weight								
DN25 / PN40	D = 115, k = 85, b = 18, n = 4, d = 14	1.4 kg	d4							
DN50 / PN40	D = 165, k = 125, b = 20, n = 4, d = 18	3.2 kg	k							
DN80 / PN16	D = 200, k = 160, b = 20, n = 8, d = 18	D = 200, k = 160, b = 20, n = 8, d = 18 4.8 kg								
Ordering type		Ordering code								
Assembling Flange	DN25 / PN40	5000275								
Assembling Flange	DN50 / PN40	5000278								
Assembling Flange [DN80 / PN16	5000279	5000279							

Terminal clamp							
Technical Data							
Suitable for	all probes with cable \varnothing 5.5 10.5 mm						
Material	standard: steel, zinc plated optionally: stainless steel 1.4301 (304)						
Weight	approx. 160 g						
Ordering type	*	Ordering code					
Terminal clamp, of steel,	zinc plated	1003440					
Terminal clamp, of stainl	ess steel 1.4301 (304)	1000278					





			0	rde	ring	code	e LN	IK 8	58_								
05.02.202	24		ГТ			11	т г	T					1 -	11	٦		T
	L	MK 858		+	- டட		↓ - L	↓-∟_	-L_	-L		-L	-L			·Ц	
Pressure																	
in bar			4	1 5													
in m H_2O				16													
Input	[mH ₂ O]	[bar]															
	00.4	00,04			0	4 0 0											
	00.6	00,06			0 (
	01.0	00,1			1	0 0 0											
	01.6	00,16				6 0 0											
	02.5	00,25			2 !												
	04.0	00,4				0 0 0											
	06.0	00,6				0 0 0											
	010	01.0				0 0 1											
	016	01,6				6 0 1											
	025	02,5				501											
	040	04.0			4 (
	060	06.0				0 0 1											
Questi	0100	010			1 (0 0 2											
Customer	toriol				9 9	9 9 9											
Housing ma	aterial						5										
PP-HT PVDF (accu	racy 0 = 0/2						R										
Customer	racy 0,5 %)						B 9										
Diaphragm	matorial						9										
								2									
Ceramic Al ₂								2									
		PTFE foil (accuracy ≥ 1 %)- not ∣						3									
Ceramic Al ₂	O ₃ 99,9 %							С									
Customer	ol							9									
Output sign 4 20 mA									1								
0 10 V / 3									3								
Customer	-wire								9								
Seals									9	l							
Viton (FKM)	_		_	_	_	_	_	_	_	1							
EPDM										3							
Customer										9							
Electrical c	onnec <u>tion</u>																
Without cab	le part										0						
PVC - cable	(grey, Ø 7,4	mm, price for 1 m)									1						
	• • •	4 mm, price for 1 m)									2						
FEP - cable	with PTFE sl	heath (black, Ø 7,4 mm, price for 1	lm)								3						
Customer											9						
Accuracy																	
0,5 % (PVDI												5					
0,35 % (star	ndard)											3					
0,25 %												2					
	aing Calibrat	tion Certificate										S					
Customer	b											9					
Cable lengt													0		0		
in m Special vers	sion												9	9	9		
Special vers	51011															0	
	mounting wi	ith protecting pipe Ø 20 mm														1	
Customer	mounting wi															9	
Sustomer																9	9 8
Accessorie	s for subme	rsible transmitter															
	nrico for cab																

Accessories for submersible transmitter	
Cabel part + price for cabel in m	5000695
Terminal clamp - zinc plated	1003440
Terminal clamp - Stainless Steel 1.4301	1000278
Mounting screw PG16 - plastic	5002200



 BD SENSORS s.r.o.
 Tel.: +420 572 411 011

 Hradišťská 817
 Tel.: +420 572 411 011

 CZ – 687 08 Buchlovice
 Fax: +420 572 411 497

 The company BD SENSORS s.r.o. is certified by TÜV SÜD Czech according to the standard ISO 9001.

www.bdsensors.cz info@bdsensors.cz





0,- .. . without additional charge

On request ... in accordance with the producer

Surcharges for calibration are not subject to any discounts. Subject to change.

This document contains the specification for ordering the product; detailed technical parameters of the product and its possible variants are given in the data she BD SENSORS reserves the right to change sensor specifications without further notice.

- 1 shielded cable with integrated ventilation tube for atmospheric pressure reference
- 2 pipe is not part of the supply

3 maximum length of PVC cable - 25 m, PUR, FEP, TPE - 40 m



