



# LMK 458

Probe for Marine and Offshore

Ceramic Sensor

accuracy according to IEC 61298-2: standard: 0.25 % FSO option: 0.1 % FSO

#### **Nominal pressure**

from 0 ... 40 cmH<sub>2</sub>O up to 0 ... 200 mH<sub>2</sub>O

#### **Output signals**

2-wire: 4 ... 20 mA others on request

#### **Special characteristics**

- diameter 39.5 mm
- diaphragm ceramics Al<sub>2</sub>O<sub>3</sub> 99.9 %
- LR-certificate (Lloyd's Register)
- DNV-approval (Det Norske Veritas)
- ABS-certificate (American Bureau of Shipping)
- CCS-certificate (China Classification Society)
- high overpressure resistance
- high long-term stability

#### **Optional versions**

- different housing materials (stainless steel, CuNiFe)
- IS-version
  Ex ia = intrinsically safe for gas
- screw-in and flange version
- accessories e.g. assembling and probe flange, mounting clamp

The hydrostatic probe LMK 458 has been developed for measuring level in service and storage tanks and is certificated for shipbuilding and offshore applications.

A permissible operating temperature up to 125 °C and the possibility to use the device in intrinsic safe areas enable to measure the pressure of various fluids under extreme conditions. The basis for the LMK 458 is a capacitive ceramic sensor element designed by BD|SENSORS, which offers a high overload resistance and medium compatibility.

#### Preferred areas of use are



drinking water abstraction desalinization plant

<u>Shipbuilding / Offshore</u> ballast tanks



monitoring of a ship's position and draught level measurement in ballast and storage tanks



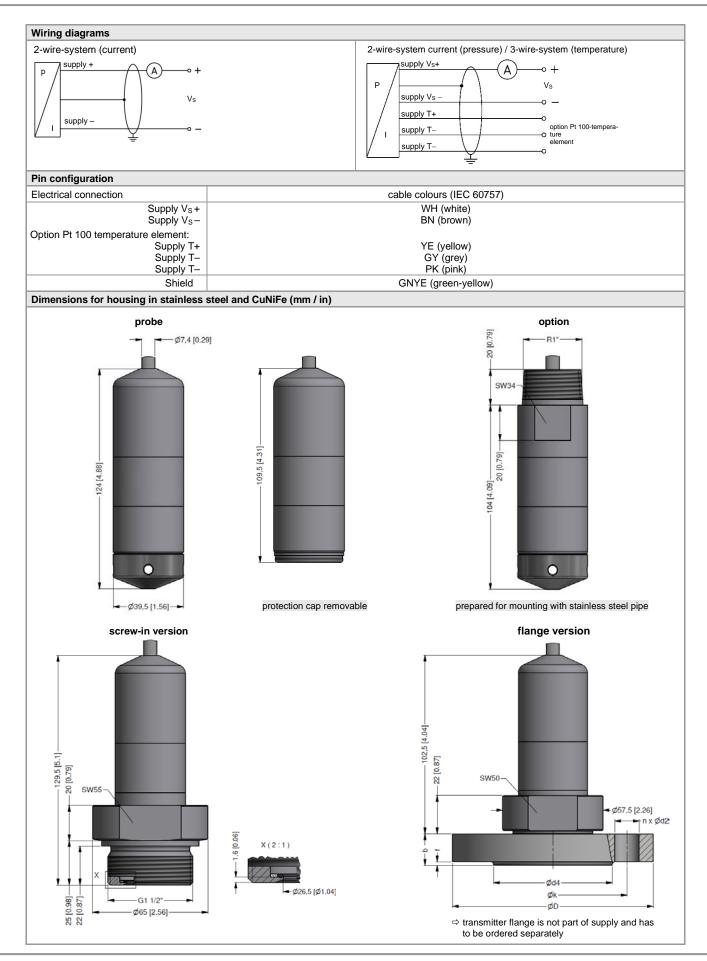
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### LMK 458 Probe for Marine and Offshore

Nominal pressure gauge <sup>1</sup>												1		1		
	[bar]	0.04	0.06	0.1	0.16	0.25	0.4	0.6	1	1.6	2.5	4	6	10	16	20
Level	[mH2O]	0.4	0.6	1	1.6	2.5	4	6	10	16	25	40	60	100	160	200
Overpressure	[bar]	2	2	4	4	6	6	8	8	15	25	25	35	35	45	45
Permissible vacuum	[bar]	-0.	2	-(	).3		-0	.5					-1			
Max. ambient pressure (hou																
<sup>1</sup> available in gauge and absolut	e; nominal	pressure r	anges a	bsolute f	rom 1 ba	r										
Output signal / Supply																
Standard		2-wire:	4 20	mA / V	s = 10	. 32 Vpc			Vsr	$a_{ted} = 24$	1 VDC					
Option IS-version	2-wire: 4 20 mA / Vs = 10 32 Vpc      Vs rated = 24 Vpc        2-wire: 4 20 mA / Vs = 12 28 Vpc      Vs rated = 24 Vpc															
Performance																
Accuracy <sup>2</sup>		standar	مار جار ۵	25.0/	-00				0.04	ion: for	- > 0	Char 3			·	
Permissible load						0			ορι	1011. 101	$p_N \ge 0.$	o par	$\leq \pm 0.$	170 - 3	0	
					0.02 A] 9		-1141									
Long term stability						ence con	aitions									
Influence effects		supply:		FSO/	10 V				peri	missible	e load:	0.05 %	FSO/	kΩ		
Turn-on time		700 ms														
Mean response time		< 200 n							mea	an mea	suring	rate 5/s	ec			
Max. response time		380 ms														
<sup>2</sup> accuracy according to IEC 6129	€2 – limit	point adju	stment (i	non-linea	arity, hyst	eresis, rep	beatabil	ity) .			~					
<sup>3</sup> under the influence of disturbar						kV accur	acy dec	reased	$to \leq \pm 0.2$	25 % FS	0					
Thermal effects (offset and	א (span) א			nperati	ires											
Tolerance band		≤±1%								ompens			20 80	0°C		
Permissible temperatures		medium	n / elect	ronics /	enviror	ment: -2	25 12	25 °C	stor	rage: -4	0 12	5 °C				
Electrical protection 4																
Short-circuit protection		perman	ent													
Reverse polarity protection				it also r	no functi	on										
Electromagnetic compatibilit	iv.				v accord		-	EN 61:	326	_		Det Nor	ske Ve	ritas)		
<sup>4</sup> additional external overvoltage																
Mechanical stability	p.0.000001							.300101		avanabi	~					
		1 ~ ( ~ ~	م م ما ایم م			Devenue	0 / h a			000 0	2)					
Vibration		4 g (ac	cording		Class	B, curve	Z / bas	SIS: DIN	I EIN 60	1068-2-0	5)					
Electrical connection																
Cable with sheath material <sup>5</sup>		TPE-U	blue	ø Ø 7	.4 mm											
Bending radius		static in	stallatio	on: 10-f	old cabl	e diamet	er		dyr	namic a	pplicati	on: 20-	fold ca	ble dia	meter	
<sup>5</sup> shielded cable with integrated v	/entilation t	ube for atr	nospher	ic pressi	ire refere	nce (for n	ominal p	oressure	e ranges	absolute	e, the ve	ntilation	tube is	closed)		
Materials																
Housing		standar	d: stai	nless st	eel 1.44	404 (316	L)									
		option:				sistant ac		sea wa	ter)				c	thers c	on reque	est
Seals (media wetted)		standar			(		,		,							
		options			KM (min	. permis	sible te	empera	ture fro	m -15 °	C)		c	thers of	on reque	est
Diaphragm		ceramic														
Protection cap		POM-C														
Cable sheath		TPE-U		ne-resi	stant. ha	alogen fr	ee. inc	reased	resista	ince ad	ainst oi	l and g	asoline			
						alt, sea v								,		
Miscellaneous					,	,	,		/							
		1														
Option cable protection		prepare	d for m	ounting	with sta	ainless s	teel pip	be								
Option cable protection for probes in stainless steel		· ·	d for m	ounting	with sta	ainless s	teel pip	be								
Option cable protection for probes in stainless steel Ingress protection		IP 68		ounting	y with sta	ainless s	teel pip	De								
Option cable protection for probes in stainless steel Ingress protection Current consumption		IP 68 max. 21	mA			ainless s	teel pip	De								
Option cable protection for probes in stainless steel Ingress protection Current consumption Weight		IP 68 max. 21 min. 65	⊨mA 0 g (wit	hout ca	ble)	ainless s	teel pip	De								
Option cable protection for probes in stainless steel Ingress protection Current consumption Weight CE-conformity		IP 68 max. 21 min. 65 EMC D	mA 0 g (wit irective	hout ca	ble)	ainless s	teel pip	be								
Option cable protection for probes in stainless steel Ingress protection Current consumption Weight CE-conformity ATEX Directive		IP 68 max. 21 min. 65 EMC D 2014/34	mA 0 g (wit irective	hout ca	ble)	ainless s	teel pip	De								
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Option cable protection for probes in stainless steel Ingress protection Current consumption Weight CE-conformity ATEX Directive <b>Option Pt 100 temperature</b> Temperature range Connection temperature eler Resistance Temperature coefficient	element	IP 68 max. 21 min. 65 EMC D 2014/34 6 -25 1 3-wire 100 Ω a 3850 pt	MA 0 g (wit irective t/EU 25°C at 0°C pm/K	hout ca	ble)	ainless s	teel pip	De								
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Option cable protection      for probes in stainless steel      Ingress protection      Current consumption      Weight      CE-conformity      ATEX Directive      Option Pt 100 temperature      Temperature range      Connection temperature eler      Resistance      Temperature coefficient      Supply Is<6 not possible in combination	e element ment n with IS-v ent	IP 68 max. 2 <sup>-1</sup> min. 65 EMC D 2014/3 <sup>4</sup> 6 -25 1 3-wire 100 Ω a 3850 pr 0.3 1 <i>cersion</i> EMV1, tempera humidit IBExU 0 U <sub>i</sub> = 28 the sup in zone 1	mA 0 g (witi irective 4/EU 25°C at 0°C om/K .0 mA to m/K .0 mA to m/K .0 mA to pom/K .0 mA to pom/K .0 mA to pom/K .0 mA to pom/K .0 mA to pom/K .0 mA to pom/K .0 m/K .0 m/K .0 m/K .0 m/K .0	hout ca 2014/: 2014/: D EMV3, D B X 1180 I3 mA, nection her:	EMV4 vib en X Pi = 660 s have a -20 6	oration: closure: an inner 0°C with 0°C	B D = 105 capaci patm 0.	nF; L <sub>i</sub> = ty of m 8 bar u	ax. 140 ip to 1.1	numbe electro zone 0 ) nF opp 1 bar	er of cel magne <sup>8</sup> : II 1 posite ti	rtificate tic corr G Ex ia he encl	: TAA0 patibili IIB T4 osure	0001G ty: В	M	
Option cable protection for probes in stainless steel Ingress protection Current consumption Weight CE-conformity ATEX Directive <b>Option Pt 100 temperature</b> Temperature range Connection temperature eler Resistance Temperature coefficient Supply Is <sup>6</sup> not possible in combination <b>Category of the environme</b> Lloyd's Register (LR) Det Norske Veritas (DNV) <b>Explosion protection 7</b> Approval DX14A-LMK 458 Safety technical maximum v Permissible temperatures fo	e element ment n with IS-v ent	IP 68 max. 2 <sup>-1</sup> min. 65 EMC D 2014/3 <sup>4</sup> 6 -25 1 3-wire 100 Ω a 3850 pr 0.3 1 <i>ersion</i> EMV1, tempera humidit	mA 0 g (with irective 4/EU 25°C at 0°C om/K .0 mA ( .0	hout ca 2014/: 2014/: D EMV3, D B X 1180 I3 mA, nection her:	ble) 30/EU B0/EU EMV4 vib en X Pi = 660 S have a -20 6 -25 7/ signal lii	oration: closure: mW, Ci an inner 0°C with	B D = 105 capaci patm 0.	nF; L <sub>i</sub> = ty of m 8 bar u	ax. 140 ip to 1. gnal lin	numbe electro zone 0 0 nF opp 1 bar e/signa	er of cel magne <sup>8</sup> : II 1 posite ti	rtificate tic corr G Ex ia he encl 60 pF/r	: TAA0 patibili IIB T4 osure	0001G ty: В	M	

### LMK 458

Probe for Marine and Offshore



## LMK 458

Probe for Marine and Offshore

		Г		dimonsi	ons in mm	
n x Ød2	1	-		DN25 /	DN50 /	DN80 /
		4	size	PN40	PN40	PN16
		<u>م</u>	b	18	20	20
		<b>V</b>	D	115	165	200
			d2	14	18	18
	- d4	_	d4	68	102	138
-	— k ————	_	f k	2 85	3 125	3 160
-	— D	-	n	4	4	8
		L		•	·	Ű
Technical data						
Suitable for	LMK 382, LMK 382H, LMK 458,	, LMK 458H				
Flange material						
Hole pattern	stainless steel 1.4404 (316L) according to DIN 2507					
Ordering type		Orde	ering cod	e		Weight
Transmitter flange DN25 / PN40			SF2540			1.2 kg
Transmitter flange DN50 / PN40		Z	SF5040			2.6 kg
Transmitter flange DN80 / PN16		Z	SF8016			4.1 kg
cable gland M16x1.5	d					
	d	- <b>1</b> -			ons in mm	
cable gland M16x1.5 with seal insert		52	size	DN25 /	DN50 /	DN80 /
cable gland M16x1.5 with seal insert (for cable-Ø 4 11 mm)				DN25 / PN40	DN50 / PN40	PN16
cable gland M16x1.5 with seal insert (for cable-Ø 4 11 mm)			b	DN25 / PN40 18	DN50 / PN40 20	PN16 20
cable gland M16x1.5 with seal insert (for cable-Ø 4 11 mm)		b		DN25 / PN40	DN50 / PN40	PN16
cable gland M16x1.5 with seal insert (for cable-Ø 4 11 mm)		bt25	b D	DN25 / PN40 18 115	DN50 / PN40 20 165	PN16 20 200
cable gland M16x1.5 with seal insert (for cable-Ø 4 11 mm)			b D d2 d4 f	DN25 / PN40 18 115 14 68 2	DN50 / PN40 20 165 18 102 3	PN16 20 200 18 138 3
cable gland M16x1.5 with seal insert (for cable-Ø 4 11 mm)			b D d2 d4 f k	DN25 / PN40 18 115 14 68 2 85	DN50 / PN40 20 165 18 102 3 125	PN16 20 200 18 138 3 160
with seal insert (for cable-Ø 4 11 mm)			b D d2 d4 f	DN25 / PN40 18 115 14 68 2	DN50 / PN40 20 165 18 102 3	PN16 20 200 18 138 3
cable gland M16x1.5 with seal insert (for cable-Ø 4 11 mm)			b D d2 d4 f k	DN25 / PN40 18 115 14 68 2 85	DN50 / PN40 20 165 18 102 3 125	PN16 20 200 18 138 3 160
cable gland M16x1.5 with seal insert (for cable-Ø 4 11 mm)			b D d2 d4 f k	DN25 / PN40 18 115 14 68 2 85	DN50 / PN40 20 165 18 102 3 125	PN16 20 200 18 138 3 160
cable gland M16x1.5 with seal insert (for cable-Ø 4 11 mm) n x d2			b D d2 d4 f k	DN25 / PN40 18 115 14 68 2 85	DN50 / PN40 20 165 18 102 3 125	PN16 20 200 18 138 3 160
cable gland M16x1.5 with seal insert (for cable-Ø 4 11 mm) n x d2			b D d2 d4 f k	DN25 / PN40 18 115 14 68 2 85	DN50 / PN40 20 165 18 102 3 125	PN16 20 200 18 138 3 160
cable gland M16x1.5 with seal insert (for cable-Ø 4 11 mm) n x d2 <b>Technical data</b> Suitable for	d4 k D all probes		b D d2 d4 f k	DN25 / PN40 18 115 14 68 2 85	DN50 / PN40 20 165 18 102 3 125	PN16 20 200 18 138 3 160
cable gland M16x1.5 with seal insert (for cable-⊘ 4 11 mm) n x d2	d4 k D all probes stainless steel 1.4404 (316L)		b D d2 d4 f k n	DN25 / PN40 18 115 14 68 2 85 4	DN50 / PN40 20 165 18 102 3 125 4	PN16 20 200 18 138 3 160 8
cable gland M16x1.5 with seal insert (for cable-Ø 4 11 mm) n x d2 <b>Technical data</b> Suitable for Flange material Material of cable gland	d4 k D all probes stainless steel 1.4404 (316L) standard: brass, nickel plated		b D d2 d4 f k n	DN25 / PN40 18 115 14 68 2 85	DN50 / PN40 20 165 18 102 3 125 4	PN16 20 200 18 138 3 160 8
cable gland M16x1.5 with seal insert (for cable-⊘ 4 11 mm) n x d2 Technical data Suitable for Flange material Material of cable gland Seal insert	d4 k D all probes stainless steel 1.4404 (316L)		b D d2 d4 f k n	DN25 / PN40 18 115 14 68 2 85 4	DN50 / PN40 20 165 18 102 3 125 4	PN16 20 200 18 138 3 160 8
cable gland M16x1.5 with seal insert (for cable-⊘ 4 11 mm) n x d2 Technical data Suitable for Flange material Material of cable gland Seal insert Hole pattern	all probes stainless steel 1.4404 (316L) standard: brass, nickel plated material: TPE (ingress protection	on IP 68)	b D d2 d4 f k n	DN25 / PN40 18 115 14 68 2 85 4 4	DN50 / PN40 20 165 18 102 3 125 4	PN16 20 200 18 138 3 160 8
cable gland M16x1.5 with seal insert (for cable-⊘ 4 11 mm) n x d2 Technical data Suitable for Flange material Material of cable gland Seal insert Hole pattern Ordering type	all probes stainless steel 1.4404 (316L) standard: brass, nickel plated material: TPE (ingress protection according to DIN 2507	on IP 68) Orde	b D d2 d4 f k n	DN25 / PN40 18 115 14 68 2 85 4 4	DN50 / PN40 20 165 18 102 3 125 4	PN16 20 200 18 138 3 160 8 3); plastic
cable gland M16x1.5 with seal insert (for cable-Ø 4 11 mm)	all probes stainless steel 1.4404 (316L) standard: brass, nickel plated material: TPE (ingress protection according to DIN 2507	on IP 68) Orde Z	b D d2 d4 f k n	DN25 / PN40 18 115 14 68 2 85 4 4	DN50 / PN40 20 165 18 102 3 125 4	PN16 20 200 18 138 3 160 8 3); plastic Weight



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BD	SE	NS	ORS
1		pressure	measurement

	Ordering cod	e LMK 45	58		
LMK 458		- 🗌 - 🔲 - 🔲	-0-0-0		
In bar, gauge        in bar, gauge        in bar, absolute 1        in mH <sub>2</sub> O        Input      [mH <sub>2</sub> O]        0.4      0.04        0.6      0.06        1.0      0.10        1.6      0.16        2.5      0.25        4.0      0.40        6.0      0.60        10      1.0        16      1.6        25      2.5        40      4.0        60      6.0        100      10        160      16        200      20        customer      Customer	7  6  5    7  6  8    7  6  8    7  6  8    7  6  8    7  6  8    7  6  8    7  6  8    7  6  8    7  6  8    7  6  8    7  6  8    7  6  8    7  6  6    0  6  0    1  0  0    1  6  0    1  6  0    1  6  0    2  5  0    4  0  0    1  6  0    2  5  0    1  6  0    2  0  0    2  0  0    2  0  2				consult
Housing stainless steel 1.4404 (316L) copper-nickel-alloy (CuNi10Fe1Mn)	1 K				
customer Design probe flange version <sup>2</sup> screw-in version	9	1 3 5	-		consult
Diaphragm ceramics Al <sub>2</sub> O <sub>3</sub> 99.9 % customer Output		C 9			consult
4 20 mA / 2-wire intrinsic safety 4 20 mA / 2-wire customer Seal		1 E 9	1		consult
EPDM FFKM <sup>3</sup> customer Electrical connection			3 7 9		consult
TPE-U-cable (blue, Ø 7.4 mm) <sup>4</sup> customer Accuracy		_	4 9		consult
standard 0.25 % FSO option für P <sub>N</sub> ≥0.6 bar: 0.1 % FSO customer			2 1 9		consult
Cable length in m Special version		_	_	999	
standard with temperature sensor Pt 100 <sup>5</sup> prepared for mounting <sup>6</sup> with stainless steel pipe				0 ( 0 - 5 (	0 0 1 3 0 2
customer				9 9	9 9 consult
nominal pressure ranges absolute from 1 bar mounting accessories are not part of supply and have to min. permissible temperature from -15°C shielded cable with integrated ventilation tube for atmosy not possible in combination with IS-version possible for probes in stainless steel; stainless steel pipe	pheric reference				