



# **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-versionEx 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



### Water

drinking water abstraction desalinization plant

Shipbuilding / Offshore

ballast tanks

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

level measurement in ballast and storage tanks





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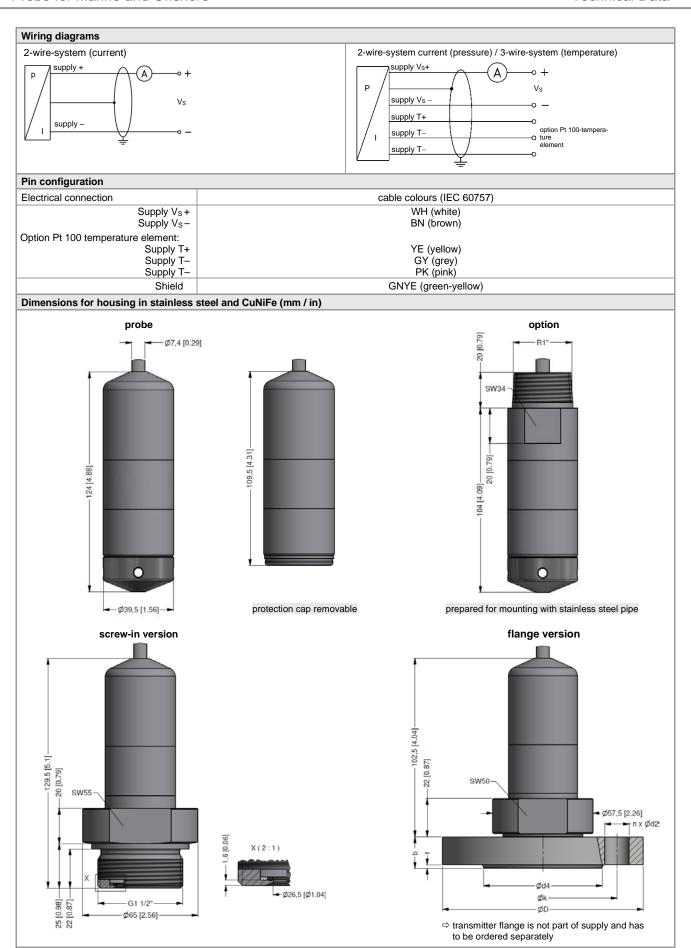


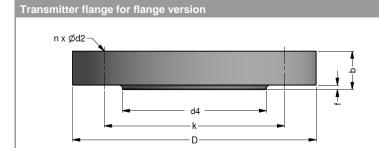






| Pressure ranges   |                        |   |   | 1 -  | T - ·  |  |  | 1 -  | 1 .  | 1 .                         |  |                                   |   | T -  | T -     |     |
|---|------------------------|---|---|--|--|--|--|--|--|-----------------------------|--|-----------------------------------|---|--|---------|-----|
| Nominal pressure gauge 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  |
|   | 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  | -  | 0.3  |  | -0   | .5   |  |                             |  |                                   | -1                                      |  |         |     |
| Max. ambient pressure (housi  |                        |   |   |  |  |  |  |  |  |                             |  |                                   |   |  |         |     |
| <sup>1</sup> available in gauge and absolute;   | ; nominal µ            | pressure  | ranges a  | bsolute  | from 1 ba  | r  |  |  |  |                             |  |                                   |   |  |         |     |
| Output signal / Supply  |                        |   | 4 00  | A / \  | 10   | 00.17  |  |  |  |                             | 4 ) /  |                                   |   |  |         |     |
| Standard  |                        |   |   |  |  | . 32 V <sub>DC</sub>   |  |  |  | ated = 24                   |  |                                   |   |  |         |     |
| Option IS-version   |                        | 2-wire:   | 4 20  | mA / V   | s = 12   | . 28 V <sub>DC</sub>   |  |  | Vsı  | ated = 24                   | 4 VDC  |                                   |   |  |         |     |
| Performance   |                        |   |   |  |  |  |  |  |  |                             |  |                                   |   |  |         |     |
| Accuracy <sup>2</sup>   |                        | standa  |   |  |  |  |  |  | opt  | ion: for                    | p <sub>N</sub> ≥ 0.  | 6 bar <sup>3</sup> :              | $\leq \pm 0.$                           | 1 % FS   | 0       |     |
| Permissible load  |                        |   |   |  | 0.02 A]  |  |  |  |  |                             |  |                                   |   |  |         |     |
| Long term stability   |                        | ≤ ± 0.1   | % FSC   | ) / year   | at refere  | ence cor   | ditions  |  |  |                             |  |                                   |   |  |         |     |
| Influence effects   |                        | supply:   |   | FSO /  | 10 V   |  |  |  | per  | missible                    | e load:  | 0.05 %                            | FSO /                                   | kΩ   |         |     |
| Turn-on time  |                        | 700 ms  |   |  |  |  |  |  |  |                             |  |                                   |   |  |         |     |
| Mean response time  |                        | < 200 r   |   |  |  |  |  |  | me   | an mea                      | suring i   | ate 5/s                           | sec                                     |  |         |     |
| Max. response time  |                        | 380 ms  |   |  |  |  |  |  |  |                             |  |                                   |   |  |         |     |
| <sup>2</sup> accuracy according to IEC 61298<br><sup>3</sup> under the influence of disturbanc  |                        |   |   |  |  |  |  |  | 4  | 05 0/ 50                    | ^  |                                   |   |  |         |     |
|   |                        |   |   |  |  | KV accui   | асу аес  | reasea   | $to \leq \pm 0$  | 25 % FS                     | 0  |                                   |   |  |         |     |
| Thermal effects (offset and   | span) / i              |   |   | nperat   | ures   |  |  |  | <u> </u>   |                             |  |                                   |   | 0.00   |         |     |
| Tolerance band  |                        | ≤ ± 1 %   |   | tro-:  | / or: :!   | ment 1   | )E 41  | DE 00  |  | ompen:                      |  |                                   | 8 ں                                     | U °C   |         |     |
| Permissible temperatures  |                        | mediur  | n / elect   | uonics   | enviror  | nment: -2  | 25 12  | 25 °C  | Sto  | rage: -4                    | υ 12   | 5 °C                              |   |  |         |     |
| Electrical protection <sup>4</sup>  |                        |   |   |  |  |  |  |  |  |                             |  |                                   |   |  |         |     |
| Short-circuit protection  |                        | permar  |   |  |  |  |  |  |  |                             |  |                                   |   |  |         |     |
| Reverse polarity protection   |                        |   | <u> </u>  |  | no functi  |  |  |  |  |                             |  |                                   |   |  |         |     |
| Electromagnetic compatibility   |                        |   |   |  | ty accord  |  |  | EN 61  |  |                             | DNV (D   | et Nor                            | ske Ve                                  | ritas)   |         |     |
| <sup>4</sup> additional external overvoltage p  | rotection u            | unit in teri  | ninal bo  | x KL 1 o   | r KL 2 wit   | n atmosp   | neric pre  | essure r   | eterence   | availabi                    | е  |                                   |   |  |         |     |
| Mechanical stability  |                        |   |   |  |  |  |  |  |  |                             |  |                                   |   |  |         |     |
| Vibration   |                        | 4 g (ac   | cording   | to DN  | V: class   | B, curve   | 2 / bas  | sis: DIN   | 1 EN 60  | 0068-2-                     | 6)   |                                   |   |  |         |     |
| Electrical connection   |                        |   |   |  |  |  |  |  |  |                             |  |                                   |   |  |         |     |
| Cable with sheath material 5  |                        | TPE-U   | blue  | e Ø7   | '.4 mm   |  |  |  |  |                             |  |                                   |   |  |         |     |
| Bending radius  |                        |   |   |  |  | e diame  |  |  |  | namic a                     |  |                                   |   |  | meter   |     |
| <sup>5</sup> shielded cable with integrated ve  | entilation tu          | uhe for at  | maanhar   |  |  |  |  |  |  |                             |  |                                   |   |  |         |     |
|   |                        | abo for at  | nospner   | ıc press   | ure reiere   | ence (for r  | ominai į   | oressure   | e ranges   | absolute                    | e, the ve  | ntilation                         | tube is                                 | closed)  |         |     |
| Materials   |                        | abo for di  | nosprier  | ric press  | ure reiere   | ence (for r  | ominai į   | oressure   | e ranges   | absolute                    | e, the ve  | ntilation                         | tube is                                 | closed)  |         |     |
| Materials   |                        |   |   |  |  |  |  | pressure   | e ranges   | absolute                    | e, the ve  | ntilation                         | tube is                                 | closed)  |         |     |
|   |                        |   | d: stai   | nless s  | teel 1.44  | 404 (316<br>sistant a  | L)   |  |  | absolute                    | e, the ve  | ntilation                         |   | closed) others c   | on requ | est |
| Materials   |                        | standa  | d: stai<br>Cul  | inless s<br>Ni10Fe   | teel 1.44  | 404 (316   | L)   |  |  | absolute                    | e, the ve  | ntilation                         |   |  | n requ  | est |
| Materials Housing Seals (media wetted)  |                        | standar<br>option:<br>standar<br>options  | d: stai<br>Cul<br>d: FKI<br>: EPI   | nless s<br>Ni10Fe<br>M<br>DM, FF   | teel 1.44<br>1Mn (res  | 404 (316   | L)<br>gainst s   | sea wa   | ter)   |                             |  | ntilation                         | (                                       |  |         |     |
| Materials Housing Seals (media wetted) Diaphragm  |                        | standar<br>option:<br>standar<br>options<br>ceramic   | rd: stai<br>Cult<br>rd: FKI<br>: EPI  | nless s<br>Ni10Fe<br>M<br>DM, FF   | teel 1.44<br>1Mn (res  | 404 (316<br>sistant a  | L)<br>gainst s   | sea wa   | ter)   |                             |  | ntilation                         | (                                       | others c   |         |     |
| Materials Housing Seals (media wetted) Diaphragm Protection cap   |                        | standar<br>option:<br>standar<br>options<br>ceramic<br>POM-C  | rd: stai<br>Cult<br>rd: FKI<br>: EPI<br>cs Al <sub>2</sub> O  | nless s<br>Ni10Fe<br>M<br>DM, FF<br>3 99.9 9   | teel 1.44<br>1Mn (res<br>KM (mir   | 404 (316<br>sistant a  | L)<br>gainst s   | sea wa<br>empera   | ter)<br>iture fro                                      | om -15 °                    | C)   |                                   | (                                       | others o   |         |     |
| Materials Housing Seals (media wetted) Diaphragm  |                        | standar<br>option:<br>standar<br>options<br>ceramic   | rd: stai<br>Cul<br>rd: FKI<br>: EPI<br>cs Al <sub>2</sub> O:  | nless s<br>Ni10Fe<br>M<br>DM, FF<br>3 99.9 °   | teel 1.44<br>1Mn (res<br>KM (mir<br>%  | 404 (316<br>sistant ag<br>n. permis  | L) gainst s sible te   | sea wa<br>empera<br>reased                                       | ter)<br>uture fro                                      | om -15 °                    | C)   |                                   | (                                       | others o   |         |     |
| Materials Housing Seals (media wetted) Diaphragm Protection cap Cable sheath  |                        | standar<br>option:<br>standar<br>options<br>ceramic<br>POM-C  | rd: stai<br>Cul<br>rd: FKI<br>: EPI<br>cs Al <sub>2</sub> O:  | nless s<br>Ni10Fe<br>M<br>DM, FF<br>3 99.9 °   | teel 1.44<br>1Mn (res<br>KM (mir<br>%  | 404 (316<br>sistant a  | L) gainst s sible te   | sea wa<br>empera<br>reased                                       | ter)<br>uture fro                                      | om -15 °                    | C)   |                                   | (                                       | others o   |         |     |
| Materials Housing Seals (media wetted) Diaphragm Protection cap Cable sheath Miscellaneous  |                        | standar<br>option:<br>standar<br>options<br>ceramic<br>POM-C  | rd: stai<br>Cul<br>rd: FKI<br>: EPI<br>cs Al <sub>2</sub> O:  | nless s<br>Ni10Fe<br>M<br>DM, FF<br>3 99.9 °   | teel 1.44<br>1Mn (res<br>KM (mir<br>%  | 404 (316<br>sistant ag<br>n. permis  | L) gainst s sible te   | sea wa<br>empera<br>reased                                       | ter)<br>uture fro                                      | om -15 °                    | C)   |                                   | (                                       | others o   |         |     |
| Materials Housing Seals (media wetted) Diaphragm Protection cap Cable sheath Miscellaneous Option cable protection  |                        | standar<br>option:<br>standar<br>options<br>ceramic<br>POM-C  | rd: stai<br>Cul<br>rd: FKI<br>: EPI<br>cs Al <sub>2</sub> O:<br>;<br>(flai  | inless s<br>Ni10Fe<br>M<br>DM, FF<br>3 99.9 s<br>me-res<br>istant a  | teel 1.44<br>1Mn (res<br>KM (min<br>%<br>istant, ha  | 404 (316<br>sistant ag<br>n. permis  | L) gainst s sible te   | sea wa<br>empera<br>reased<br>neavy o                            | ter)<br>uture fro                                      | om -15 °                    | C)   |                                   | (                                       | others o   |         |     |
| Materials Housing Seals (media wetted) Diaphragm Protection cap Cable sheath Miscellaneous Option cable protection for probes in stainless steel  |                        | standar<br>option:<br>standar<br>options<br>ceramin<br>POM-C<br>TPE-U   | rd: stai<br>Cul<br>rd: FKI<br>: EPI<br>cs Al <sub>2</sub> O:<br>;<br>(flai  | inless s<br>Ni10Fe<br>M<br>DM, FF<br>3 99.9 s<br>me-res<br>istant a  | teel 1.44<br>1Mn (res<br>KM (min<br>%<br>istant, ha  | 404 (316<br>sistant ag<br>n. permis<br>alogen fr<br>alt, sea v   | L) gainst s sible te   | sea wa<br>empera<br>reased<br>neavy o                            | ter)<br>uture fro                                      | om -15 °                    | C)   |                                   | (                                       | others o   |         |     |
| Materials Housing Seals (media wetted) Diaphragm Protection cap Cable sheath  Miscellaneous Option cable protection for probes in stainless steel Ingress protection  |                        | standar<br>option:<br>standar<br>options<br>ceramic<br>POM-C<br>TPE-U   | rd: stai<br>Cul<br>rd: FKI<br>: EPI<br>cs Al <sub>2</sub> O<br>;<br>(flai<br>resi   | inless s<br>Ni10Fe<br>M<br>DM, FF<br>3 99.9 s<br>me-res<br>istant a  | teel 1.44<br>1Mn (res<br>KM (min<br>%<br>istant, ha  | 404 (316<br>sistant ag<br>n. permis<br>alogen fr<br>alt, sea v   | L) gainst s sible te   | sea wa<br>empera<br>reased<br>neavy o                            | ter)<br>uture fro                                      | om -15 °                    | C)   |                                   | (                                       | others o   |         |     |
| Materials Housing Seals (media wetted) Diaphragm Protection cap Cable sheath  Miscellaneous Option cable protection for probes in stainless steel Ingress protection Current consumption  |                        | standar<br>option:<br>standar<br>options<br>ceramic<br>POM-C<br>TPE-U   | rd: stai<br>Cul<br>rd: FKI<br>: EPI<br>cs Al <sub>2</sub> O:<br>(flar<br>resi   | inless s<br>Ni10Fe<br>M<br>DM, FF<br>3 99.9 9<br>me-res<br>istant a  | teel 1.44 1Mn (res KM (mir   | 404 (316<br>sistant ag<br>n. permis<br>alogen fr<br>alt, sea v   | L) gainst s sible te   | sea wa<br>empera<br>reased<br>neavy o                            | ter)<br>uture fro                                      | om -15 °                    | C)   |                                   | (                                       | others o   |         |     |
| Materials Housing Seals (media wetted) Diaphragm Protection cap Cable sheath  Miscellaneous Option cable protection for probes in stainless steel Ingress protection Current consumption Weight   |                        | standar option: standar options ceramic POM-C TPE-U prepare IP 68 max. 2 min. 65  | rd: stai<br>Cultd: FKI<br>: EPI<br>cs Al <sub>2</sub> O:<br>: (flai<br>resi   | inless s<br>Ni10Fe<br>W<br>DM, FF<br>3 99.9 9<br>me-res<br>istant a  | teel 1.44 1Mn (res KM (mir % stant, hagainst sa g with sta   | 404 (316<br>sistant ag<br>n. permis<br>alogen fr<br>alt, sea v   | L) gainst s sible te   | sea wa<br>empera<br>reased<br>neavy o                            | ter)<br>uture fro                                      | om -15 °                    | C)   |                                   | (                                       | others o   |         |     |
| Materials Housing Seals (media wetted) Diaphragm Protection cap Cable sheath  Miscellaneous Option cable protection for probes in stainless steel Ingress protection Current consumption Weight CE-conformity   |                        | standar option: standar options ceramic POM-C TPE-U prepare IP 68 max. 2 min. 65 EMC D  | rd: stai<br>Cultd: FKI<br>: EPI<br>cs Al <sub>2</sub> O:<br>: (flai<br>resi   | inless s<br>Ni10Fe<br>W<br>DM, FF<br>3 99.9 9<br>me-res<br>istant a  | teel 1.44 1Mn (res KM (mir % stant, hagainst sa g with sta   | 404 (316<br>sistant ag<br>n. permis<br>alogen fr<br>alt, sea v   | L) gainst s sible te   | sea wa<br>empera<br>reased<br>neavy o                            | ter)<br>uture fro                                      | om -15 °                    | C)   |                                   | (                                       | others o   |         |     |
| Materials Housing Seals (media wetted) Diaphragm Protection cap Cable sheath  Miscellaneous Option cable protection for probes in stainless steel Ingress protection Current consumption Weight CE-conformity ATEX Directive  |                        | standar option: standar options ceramic POM-C TPE-U  prepare IP 68 max. 2 min. 65 EMC D 2014/3  | rd: stai<br>Cultd: FKI<br>: EPI<br>cs Al <sub>2</sub> O:<br>: (flai<br>resi   | inless s<br>Ni10Fe<br>W<br>DM, FF<br>3 99.9 9<br>me-res<br>istant a  | teel 1.44 1Mn (res KM (mir % stant, hagainst sa g with sta   | 404 (316<br>sistant ag<br>n. permis<br>alogen fr<br>alt, sea v   | L) gainst s sible te   | sea wa<br>empera<br>reased<br>neavy o                            | ter)<br>uture fro                                      | om -15 °                    | C)   |                                   | (                                       | others o   |         |     |
| Materials Housing Seals (media wetted) Diaphragm Protection cap Cable sheath  Miscellaneous Option cable protection for probes in stainless steel Ingress protection Current consumption Weight CE-conformity ATEX Directive Option Pt 100 temperature e  |                        | standar option: standar options ceramic POM-C TPE-U  prepare IP 68 max. 2 min. 65 EMC D 2014/3  | rd: stai<br>Cult<br>rd: FKI<br>: EPI<br>cs Al <sub>2</sub> O<br>:<br>(flai<br>resi<br>ed for m<br>1 mA<br>50 g (with<br>irective<br>4/EU  | inless s<br>Ni10Fe<br>W<br>DM, FF<br>3 99.9 9<br>me-res<br>istant a  | teel 1.44 1Mn (res KM (mir % stant, hagainst sa g with sta   | 404 (316<br>sistant ag<br>n. permis<br>alogen fr<br>alt, sea v   | L) gainst s sible te   | sea wa<br>empera<br>reased<br>neavy o                            | ter)<br>uture fro                                      | om -15 °                    | C)   |                                   | (                                       | others o   |         |     |
| Materials Housing Seals (media wetted) Diaphragm Protection cap Cable sheath  Miscellaneous Option cable protection for probes in stainless steel Ingress protection Current consumption Weight CE-conformity ATEX Directive Option Pt 100 temperature of   | element                | standar option: standar options ceramic POM-C TPE-U  prepare IP 68 max. 2 min. 65 EMC D 2014/3 6 -25  | rd: stai<br>Cult<br>rd: FKI<br>: EPI<br>cs Al <sub>2</sub> O<br>:<br>(flai<br>resi<br>ed for m<br>1 mA<br>50 g (with<br>irective<br>4/EU  | inless s<br>Ni10Fe<br>W<br>DM, FF<br>3 99.9 9<br>me-res<br>istant a  | teel 1.44 1Mn (res KM (mir % stant, hagainst sa g with sta   | 404 (316<br>sistant ag<br>n. permis<br>alogen fr<br>alt, sea v   | L) gainst s sible te   | sea wa<br>empera<br>reased<br>neavy o                            | ter)<br>uture fro                                      | om -15 °                    | C)   |                                   | (                                       | others o   |         |     |
| Materials Housing Seals (media wetted) Diaphragm Protection cap Cable sheath  Miscellaneous Option cable protection for probes in stainless steel Ingress protection Current consumption Weight CE-conformity ATEX Directive Option Pt 100 temperature of Temperature range Connection temperature elem   | element                | standar option: standar options ceramic POM-C TPE-U  prepare IP 68 max. 2 min. 65 EMC D 2014/3 6 -25 3-wire   | rd: stai<br>Cult<br>rd: FKI<br>: EPI<br>cs Al <sub>2</sub> O<br>:<br>(flai<br>resi<br>ed for m<br>1 mA<br>50 g (with<br>irective<br>4/EU  | inless s<br>Ni10Fe<br>W<br>DM, FF<br>3 99.9 9<br>me-res<br>istant a  | teel 1.44 1Mn (res KM (mir % stant, hagainst sa g with sta   | 404 (316<br>sistant ag<br>n. permis<br>alogen fr<br>alt, sea v   | L) gainst s sible te   | sea wa<br>empera<br>reased<br>neavy o                            | ter)<br>uture fro                                      | om -15 °                    | C)   |                                   | (                                       | others o   |         |     |
| Materials Housing Seals (media wetted) Diaphragm Protection cap Cable sheath  Miscellaneous Option cable protection for probes in stainless steel Ingress protection Current consumption Weight CE-conformity ATEX Directive Option Pt 100 temperature e Temperature range Connection temperature elem Resistance   | element                | standar option: standar options ceramic POM-C TPE-U  prepare IP 68 max. 2 min. 65 EMC D 2014/3 6 -25 3-wire 100 Ω   | rd: stai<br>Cult<br>rd: FKI<br>: EPI<br>cs Al <sub>2</sub> O:<br>(flai<br>resi<br>ed for m<br>1 mA<br>50 g (wit<br>irective<br>4/EU   | inless s<br>Ni10Fe<br>W<br>DM, FF<br>3 99.9 9<br>me-res<br>istant a  | teel 1.44 1Mn (res KM (mir % stant, hagainst sa g with sta   | 404 (316<br>sistant ag<br>n. permis<br>alogen fr<br>alt, sea v   | L) gainst s sible te   | sea wa<br>empera<br>reased<br>neavy o                            | ter)<br>uture fro                                      | om -15 °                    | C)   |                                   | (                                       | others o   |         |     |
| Materials Housing Seals (media wetted) Diaphragm Protection cap Cable sheath  Miscellaneous Option cable protection for probes in stainless steel Ingress protection Current consumption Weight CE-conformity ATEX Directive Option Pt 100 temperature e Temperature range Connection temperature elem Resistance Temperature coefficient   | element                | standar option: standar options ceramic POM-C TPE-U  prepare IP 68 max. 2 min. 65 EMC D 2014/3 6 -25 3-wire 100 \Omega 3850 p   | rd: stai Cuf rd: FKI : EPI cs Al <sub>2</sub> O; (flai resi  and for m  1 mA 50 g (with irrective 4/EU  125°C  at 0°C pm/K  | inless s<br>Ni10Fe<br>M<br>DM, FF<br>3 99.9 c<br>me-res<br>sistant a<br>nounting                                     | teel 1.44 1Mn (res KM (mir % stant, hagainst sa g with sta   | 404 (316<br>sistant ag<br>n. permis<br>alogen fr<br>alt, sea v   | L) gainst s sible te   | sea wa<br>empera<br>reased<br>neavy o                            | ter)<br>uture fro                                      | om -15 °                    | C)   |                                   | (                                       | others o   |         |     |
| Materials Housing Seals (media wetted) Diaphragm Protection cap Cable sheath  Miscellaneous Option cable protection for probes in stainless steel Ingress protection Current consumption Weight CE-conformity ATEX Directive Option Pt 100 temperature of temperature range Connection temperature elem Resistance Temperature coefficient Supply Is  | element                | standar option: standar options ceramic POM-C TPE-U prepare IP 68 max. 2 min. 65 EMC D 2014/3 6 -25 3-wire 100 \Omega 3850 p 0.3 1  | rd: stai Cuf rd: FKI : EPI cs Al <sub>2</sub> O; (flai resi  and for m  1 mA 50 g (with irrective 4/EU  125°C  at 0°C pm/K  | inless s<br>Ni10Fe<br>M<br>DM, FF<br>3 99.9 c<br>me-res<br>sistant a<br>nounting                                     | teel 1.44 1Mn (res KM (mir % stant, hagainst sa g with sta   | 404 (316<br>sistant ag<br>n. permis<br>alogen fr<br>alt, sea v   | L) gainst s sible te   | sea wa<br>empera<br>reased<br>neavy o                            | ter)<br>uture fro                                      | om -15 °                    | C)   |                                   | (                                       | others o   |         |     |
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|      | dimensions in mm |        |        |  |  |  |  |
|------|------------------|--------|--------|--|--|--|--|
| oi=0 | DN25 /           | DN50 / | DN80 / |  |  |  |  |
| size | PN40             | PN40   | PN16   |  |  |  |  |
| b    | 18               | 20     | 20     |  |  |  |  |
| D    | 115              | 165    | 200    |  |  |  |  |
| d2   | 14               | 18     | 18     |  |  |  |  |
| d4   | 68               | 102    | 138    |  |  |  |  |
| f    | 2                | 3      | 3      |  |  |  |  |
| k    | 85               | 125    | 160    |  |  |  |  |
| n    | 4                | 4      | 8      |  |  |  |  |

| Technical data                 |                               |               |        |  |  |
|--------------------------------|-------------------------------|---------------|--------|--|--|
| Suitable for                   | LMK 382, LMK 382H, LMK 458    | 3, LMK 458H   |        |  |  |
| Flange material                | stainless steel 1.4404 (316L) |               |        |  |  |
| Hole pattern                   | according to DIN 2507         |               |        |  |  |
| Ordering type                  |                               | Ordering code | Weight |  |  |
| Transmitter flange DN25 / PN40 |                               | ZSF2540       | 1.2 kg |  |  |
| Transmitter flange DN50 / PN40 |                               | ZSF5040       | 2.6 kg |  |  |
| Transmitter flange DN80 / PN16 |                               | ZSF8016       | 4.1 kg |  |  |

# cable gland M16x1.5 with seal insert (for cable-Ø 4 ... 11 mm)

| dimensions in mm |                |                |                |  |  |  |
|------------------|----------------|----------------|----------------|--|--|--|
| size             | DN25 /<br>PN40 | DN50 /<br>PN40 | DN80 /<br>PN16 |  |  |  |
| b                | 18             | 20             | 20             |  |  |  |
| D                | 115            | 165            | 200            |  |  |  |
| d2               | 14             | 18             | 18             |  |  |  |
| d4               | 68             | 102            | 138            |  |  |  |
| f                | 2              | 3              | 3              |  |  |  |
| k                | 85             | 125            | 160            |  |  |  |
| n                | 4              | 4              | 8              |  |  |  |

| Technical data          |                                     |   |
|-------------------------|-------------------------------------|---|
| Suitable for            | all probes                          |   |
| Flange material         | stainless steel 1.4404 (316L)       |   |
| Material of cable gland | standard: brass, nickel plated      | on request: stainless steel 1.4305 (303); plastic |
| Seal insert             | material: TPE (ingress protection I | P 68)   |
| Hole pattern            | according to DIN 2507               |   |

| Ordering type                                     | Ordering code | Weight |
|---|---------------|--------|
| DN25 / PN40 with cable gland brass, nickel plated | ZMF2540       | 1.4 kg |
| DN50 / PN40 with cable gland brass, nickel plated | ZMF5040       | 3.2 kg |
| DN80 / PN16 with cable gland brass, nickel plated | ZMF8016       | 4.8 kg |

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LMK458\_E\_140425



### Ordering code LMK 458 LMK 458 Pressure in bar, gauge in bar, absolute 7 6 8 in mH<sub>2</sub>O Input 0.4 0.04 0 4 0 0 0 6 0 0 0.6 0.06 1 0 0 0 1 6 0 0 1.0 0.10 0.16 1.6 2.5 0.25 2 5 0 0 4 0 0 0 4.0 0.40 6 0 0 0 0.60 6.0 1 0 0 1 10 10 1 6 0 1 2 5 0 1 4 0 0 1 16 1.6 25 25 40 40 6 0 0 1 1 0 0 2 60 6.0 100 10 160 16 1 6 0 2 200 20 2 0 0 2 customer 9 9 9 9 consult stainless steel 1.4404 (316L) copper-nickel-alloy (CuNi10Fe1Mn) customer consult Design probe flange version <sup>2</sup> 3 screw-in version 5 Diaphragm ceramics Al<sub>2</sub>O<sub>3</sub> 99.9 % С 9 customer consult Output 4 ... 20 mA / 2-wire 1 intrinsic safety 4 ... 20 mA / 2-wire Ε customer 9 consult Seal FKM 1 EPDM 3 FFKM<sup>3</sup> 7 customer 9 consult Electrical connection TPE-U-cable (blue, Ø 7.4 mm) 4 9 customer consult Accuracy standard 0.25 % FSO 2 option für P<sub>N</sub> ≥0.6 bar: 0.1 % FSO customer 9 consult Cable length 9 9 9 Special version standard 0 0 0 with temperature sensor Pt 100 <sup>5</sup> 0 1 3 prepared for mounting 6 5 0 2 with stainless steel pipe 9 9 9 consult

16.12.2024

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We reserve the right to make modifications to the specifications and materials.

info@bdsensors.de

<sup>&</sup>lt;sup>1</sup> nominal pressure ranges absolute from 1 bar

<sup>&</sup>lt;sup>2</sup> mounting accessories are not part of supply and have to be ordered separately

<sup>&</sup>lt;sup>3</sup> min. permissible temperature from -15°C

<sup>&</sup>lt;sup>4</sup> shielded cable with integrated ventilation tube for atmospheric reference

<sup>&</sup>lt;sup>5</sup> not possible in combination with IS-version

<sup>&</sup>lt;sup>6</sup> possible for probes in stainless steel; stainless steel pipe is not part of the supply