

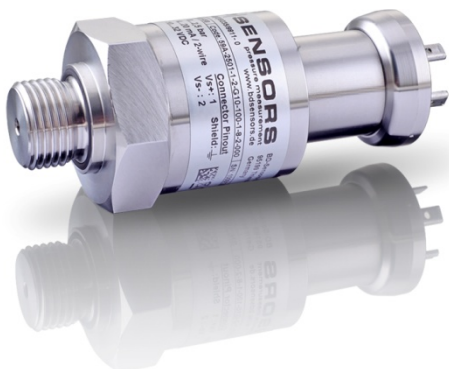


## DMK 458

### Pressure Transmitter 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 mbar up to 0 ... 20 bar

#### Output signals

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

#### Product characteristics

- ▶ LR-certificate (Lloyd's Register)
- ▶ DNV-approval
- ▶ ABS-certificate (American Bureau of Shipping)
- ▶ CCS-certificate (China Classification Society)
- ▶ diaphragm ceramics  $Al_2O_3$  99.9 %
- ▶ high overpressure resistance
- ▶ excellent long term stability

#### Optional versions

- ▶ IS-version  
Ex ia= intrinsically safe for gases
- ▶ pressure port in CuNiFe (sea water resistant)

The pressure transmitter DMK 458 has been developed for marine and offshore applications. In addition to thread connections, different flush versions are available, which are especially suitable for pasty, viscous, and polluted media.

Due to the capacitive ceramic sensor developed by BD|SENSORS the DMK 458 shows an outstanding accuracy as well as a high overload and temperature resistance.

#### Preferred areas of use are



Monitoring of pressure during loading and unloading processes



Monitoring of a ship's position and draught  
Use in anti-heeling systems  
Water and sea water



Level measurement in ballast and storage tanks



# DMK 458

Pressure Transmitter for Marine and Offshore

Technical Data

| Pressure ranges                                                                                                                   |                                                                                                          |                                                                                                                                                          |                                                |      |            |      |     |     |                                   |                                                                  |     |    |    |     |     |     |
|-----------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------|------|------------|------|-----|-----|-----------------------------------|------------------------------------------------------------------|-----|----|----|-----|-----|-----|
| Nominal pressure <sup>1</sup>                                                                                                     | [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                                                                                                                             | [mH <sub>2</sub> O]                                                                                      | 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                                                               |     |    |    |     |     |     |
| <sup>1</sup> available in gauge and absolute; nominal pressure ranges absolute from 1 bar                                         |                                                                                                          |                                                                                                                                                          |                                                |      |            |      |     |     |                                   |                                                                  |     |    |    |     |     |     |
| Output signal / Supply                                                                                                            |                                                                                                          |                                                                                                                                                          |                                                |      |            |      |     |     |                                   |                                                                  |     |    |    |     |     |     |
| Standard                                                                                                                          | 2-wire: 4 ... 20 mA / V <sub>S</sub> = 9 ... 32 V <sub>DC</sub>                                          |                                                                                                                                                          |                                                |      |            |      |     |     |                                   | V <sub>S rated</sub> = 24 V <sub>DC</sub>                        |     |    |    |     |     |     |
| Option IS-version                                                                                                                 | 2-wire: 4 ... 20 mA / V <sub>S</sub> = 14 ... 28 V <sub>DC</sub>                                         |                                                                                                                                                          |                                                |      |            |      |     |     |                                   | V <sub>S rated</sub> = 24 V <sub>DC</sub>                        |     |    |    |     |     |     |
| Performance                                                                                                                       |                                                                                                          |                                                                                                                                                          |                                                |      |            |      |     |     |                                   |                                                                  |     |    |    |     |     |     |
| Accuracy <sup>2</sup>                                                                                                             | standard: ≤ ± 0.25 % FSO                                                                                 |                                                                                                                                                          |                                                |      |            |      |     |     |                                   | option for p <sub>N</sub> ≥ 0.6 bar <sup>3</sup> : ≤ ± 0.1 % FSO |     |    |    |     |     |     |
| Permissible load                                                                                                                  | R <sub>max</sub> = [(V <sub>S</sub> – V <sub>S min</sub> ) / 0.02 A] Ω                                   |                                                                                                                                                          |                                                |      |            |      |     |     |                                   |                                                                  |     |    |    |     |     |     |
| Long term stability                                                                                                               | ≤ ± 0.1 % FSO / year at reference conditions                                                             |                                                                                                                                                          |                                                |      |            |      |     |     |                                   |                                                                  |     |    |    |     |     |     |
| Influence effects                                                                                                                 | supply: 0.05 % FSO / 10 V                                                                                |                                                                                                                                                          |                                                |      |            |      |     |     |                                   | load: 0.05 % FSO / kΩ                                            |     |    |    |     |     |     |
| Turn-on time                                                                                                                      | 700 msec                                                                                                 |                                                                                                                                                          |                                                |      |            |      |     |     |                                   |                                                                  |     |    |    |     |     |     |
| Mean response time                                                                                                                | < 200 msec                                                                                               |                                                                                                                                                          |                                                |      |            |      |     |     |                                   | mean measuring rate 5/sec                                        |     |    |    |     |     |     |
| Max. response time                                                                                                                | 380 msec                                                                                                 |                                                                                                                                                          |                                                |      |            |      |     |     |                                   |                                                                  |     |    |    |     |     |     |
| <sup>2</sup> accuracy according to IEC 61298-2 – limit point adjustment (non-linearity, hysteresis, repeatability)                |                                                                                                          |                                                                                                                                                          |                                                |      |            |      |     |     |                                   |                                                                  |     |    |    |     |     |     |
| <sup>3</sup> under the influence of disturbance burst according to EN 61000-4-4 (2004) +2 kV accuracy decreases on ≤ ± 0.25 % FSO |                                                                                                          |                                                                                                                                                          |                                                |      |            |      |     |     |                                   |                                                                  |     |    |    |     |     |     |
| Thermal effects (offset and span)                                                                                                 |                                                                                                          |                                                                                                                                                          |                                                |      |            |      |     |     |                                   |                                                                  |     |    |    |     |     |     |
| Tolerance band                                                                                                                    | ≤ ± 1 % FSO                                                                                              |                                                                                                                                                          |                                                |      |            |      |     |     |                                   |                                                                  |     |    |    |     |     |     |
| In compensated range                                                                                                              | -20 ... 80 °C                                                                                            |                                                                                                                                                          |                                                |      |            |      |     |     |                                   |                                                                  |     |    |    |     |     |     |
| Permissible temperatures                                                                                                          |                                                                                                          |                                                                                                                                                          |                                                |      |            |      |     |     |                                   |                                                                  |     |    |    |     |     |     |
| Medium                                                                                                                            | -40 ... 125 °C                                                                                           |                                                                                                                                                          |                                                |      |            |      |     |     |                                   |                                                                  |     |    |    |     |     |     |
| Electronics / environment                                                                                                         | -25 ... 85 °C                                                                                            |                                                                                                                                                          |                                                |      |            |      |     |     |                                   |                                                                  |     |    |    |     |     |     |
| Storage                                                                                                                           | -40 ... 100 °C                                                                                           |                                                                                                                                                          |                                                |      |            |      |     |     |                                   |                                                                  |     |    |    |     |     |     |
| Electrical protection                                                                                                             |                                                                                                          |                                                                                                                                                          |                                                |      |            |      |     |     |                                   |                                                                  |     |    |    |     |     |     |
| Short-circuit protection                                                                                                          | permanent                                                                                                |                                                                                                                                                          |                                                |      |            |      |     |     |                                   |                                                                  |     |    |    |     |     |     |
| Reverse polarity protection                                                                                                       | no damage, but also no function                                                                          |                                                                                                                                                          |                                                |      |            |      |     |     |                                   |                                                                  |     |    |    |     |     |     |
| Electromagnetic compatibility                                                                                                     | emission and immunity according to<br>- EN 61326 - DNV                                                   |                                                                                                                                                          |                                                |      |            |      |     |     |                                   |                                                                  |     |    |    |     |     |     |
| Mechanical stability                                                                                                              |                                                                                                          |                                                                                                                                                          |                                                |      |            |      |     |     |                                   |                                                                  |     |    |    |     |     |     |
| Vibration                                                                                                                         | 4 g (according to DNV: Class B, curve 2 / basis: IEC 60068-2-6)                                          |                                                                                                                                                          |                                                |      |            |      |     |     |                                   |                                                                  |     |    |    |     |     |     |
| Materials                                                                                                                         |                                                                                                          |                                                                                                                                                          |                                                |      |            |      |     |     |                                   |                                                                  |     |    |    |     |     |     |
| Pressure port                                                                                                                     | standard:                                                                                                | stainless steel 1.4404 (316 L)                                                                                                                           |                                                |      |            |      |     |     |                                   |                                                                  |     |    |    |     |     |     |
|                                                                                                                                   | option:                                                                                                  | CuNi10Fe1Mn (sea water resistant) - only for G1/2" open pressure port and in combination with housing in CuNi10Fe1Mn (not possible with field housing) - |                                                |      |            |      |     |     |                                   |                                                                  |     |    |    |     |     |     |
| Housing                                                                                                                           | standard:                                                                                                | stainless steel 1.4404 (316 L)                                                                                                                           |                                                |      |            |      |     |     |                                   |                                                                  |     |    |    |     |     |     |
|                                                                                                                                   | option:                                                                                                  | CuNi10Fe1Mn (sea water resistant) - only in combination with pressure port in CuNi10Fe1Mn -                                                              |                                                |      |            |      |     |     |                                   |                                                                  |     |    |    |     |     |     |
| Option field housing (not possible with CuNi10Fe1Mn)                                                                              | stainless steel                                                                                          | 1.4404 (316L)                                                                                                                                            |                                                |      |            |      |     |     |                                   |                                                                  |     |    |    |     |     |     |
|                                                                                                                                   | cable gland:                                                                                             | absolute, sealed gauge:                                                                                                                                  | brass, nickel plated                           |      |            |      |     |     |                                   |                                                                  |     |    |    |     |     |     |
|                                                                                                                                   |                                                                                                          | gauge:                                                                                                                                                   | polyamide (with integrated pressure reference) |      |            |      |     |     |                                   |                                                                  |     |    |    |     |     |     |
| Cable sheath for option cable outlet                                                                                              | TPE -U                                                                                                   | (flame-resistant, halogen free, increased resistance against oil and gasoline, resistant against salt, sea water, heavy oil)                             |                                                |      |            |      |     |     |                                   |                                                                  |     |    |    |     |     |     |
| Seals (media wetted)                                                                                                              | FKM                                                                                                      | others on request                                                                                                                                        |                                                |      |            |      |     |     |                                   |                                                                  |     |    |    |     |     |     |
| Diaphragm                                                                                                                         | ceramics Al <sub>2</sub> O <sub>3</sub> 99.9 %                                                           |                                                                                                                                                          |                                                |      |            |      |     |     |                                   |                                                                  |     |    |    |     |     |     |
| Media wetted parts                                                                                                                | pressure port, seals, diaphragm                                                                          |                                                                                                                                                          |                                                |      |            |      |     |     |                                   |                                                                  |     |    |    |     |     |     |
| Category of the environment                                                                                                       |                                                                                                          |                                                                                                                                                          |                                                |      |            |      |     |     |                                   |                                                                  |     |    |    |     |     |     |
| Lloyd's Register (LR)                                                                                                             | EMV1, EMV2, EMV3 <sup>4</sup> , EMV4                                                                     |                                                                                                                                                          |                                                |      |            |      |     |     |                                   | number of certificate: 13/20055                                  |     |    |    |     |     |     |
| Det Norske Veritas (DNV)                                                                                                          | temperature:                                                                                             | D                                                                                                                                                        |                                                |      | vibration: | B    |     |     | number of certificate: TAA00001GR |                                                                  |     |    |    |     |     |     |
|                                                                                                                                   | humidity:                                                                                                | B                                                                                                                                                        |                                                |      | enclosure: | D    |     |     |                                   |                                                                  |     |    |    |     |     |     |
|                                                                                                                                   | electromagnetic compatibility:                                                                           |                                                                                                                                                          |                                                |      |            | B    |     |     |                                   |                                                                  |     |    |    |     |     |     |
| <sup>4</sup> not valid for IS-version (DX14A-DMK 458)                                                                             |                                                                                                          |                                                                                                                                                          |                                                |      |            |      |     |     |                                   |                                                                  |     |    |    |     |     |     |
| Explosion protection                                                                                                              |                                                                                                          |                                                                                                                                                          |                                                |      |            |      |     |     |                                   |                                                                  |     |    |    |     |     |     |
| Approval DX14A-DMK 458                                                                                                            | IBExU 07 ATEX 1180 X                                                                                     |                                                                                                                                                          |                                                |      |            |      |     |     |                                   |                                                                  |     |    |    |     |     |     |
|                                                                                                                                   | field housing:                                                                                           | zone 0: II 1G Ex ia IIC T4 Ga                                                                                                                            |                                                |      |            |      |     |     |                                   |                                                                  |     |    |    |     |     |     |
|                                                                                                                                   | ISO 4400, M12x1, cable outlet:                                                                           | zone 0: II 1G Ex ia IIB T4 Ga                                                                                                                            |                                                |      |            |      |     |     |                                   |                                                                  |     |    |    |     |     |     |
| Safety technical maximum values                                                                                                   | U <sub>i</sub> = 28 V; I <sub>i</sub> = 93 mA; P <sub>i</sub> = 660 mW; L <sub>i</sub> = 0 μH            |                                                                                                                                                          |                                                |      |            |      |     |     |                                   |                                                                  |     |    |    |     |     |     |
|                                                                                                                                   | field housing:                                                                                           | C <sub>i</sub> = 52.3 nF; 90.2 nF opposite GND                                                                                                           |                                                |      |            |      |     |     |                                   |                                                                  |     |    |    |     |     |     |
|                                                                                                                                   | ISO 4400, M12x1, cable outlet:                                                                           | C <sub>i</sub> = 105 nF; 140 nF opposite GND                                                                                                             |                                                |      |            |      |     |     |                                   |                                                                  |     |    |    |     |     |     |
| Permissible temperatures for environment                                                                                          | in zone 0: -20 ... 60 °C with p <sub>atm</sub> 0.8 bar up to 1.1 bar<br>zone 1 and higher: -25 ... 70 °C |                                                                                                                                                          |                                                |      |            |      |     |     |                                   |                                                                  |     |    |    |     |     |     |
| Permissible temperatures for medium                                                                                               | -40 ... 85 °C                                                                                            |                                                                                                                                                          |                                                |      |            |      |     |     |                                   |                                                                  |     |    |    |     |     |     |

# DMK 458

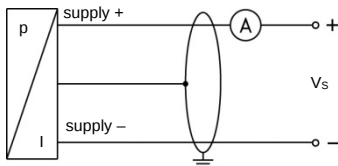
Pressure Transmitter for Marine and Offshore

Technical Data

| Miscellaneous         |                                                             |
|-----------------------|-------------------------------------------------------------|
| Ingress protection    | IP 65, IP 67, IP 68                                         |
| Installation position | any                                                         |
| Current consumption   | max. 21 mA                                                  |
| Weight                | min. 400 g (depending on housing and mechanical connection) |
| Operational life      | 100 million load cycles                                     |
| CE conformity         | EMC Directive: 2014/30/EU                                   |
| ATEX Directive        | 2014/34/EU                                                  |

## Wiring diagram

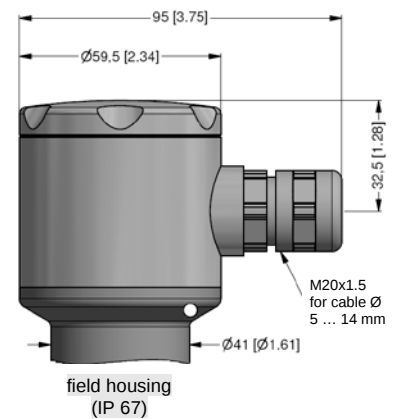
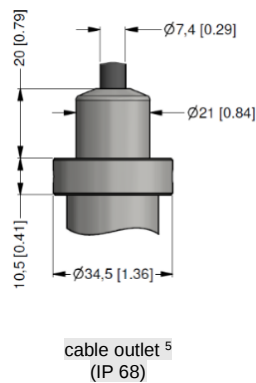
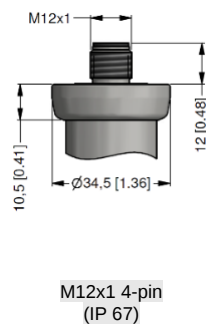
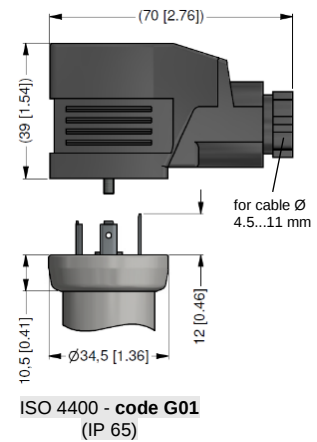
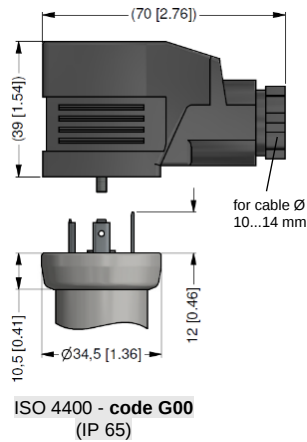
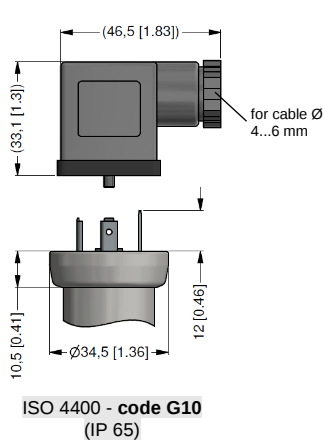
2-wire-system (current)



## Pin configuration

| Electrical connection | ISO 4400   | field housing<br>(clamp section:<br>2.5 mm <sup>2</sup> ) | M12x1 (4-pin),<br>metal | cable colours<br>(IEC 60757) |
|-----------------------|------------|-----------------------------------------------------------|-------------------------|------------------------------|
|                       |            |                                                           |                         |                              |
| Supply +              | 1          | V <sub>S</sub> +                                          | 1                       | WH (white)                   |
| Supply -              | 2          | V <sub>S</sub> -                                          | 2                       | BN (brown)                   |
| Shield                | ground pin | GND                                                       | 4                       | GNYE (green-yellow)          |

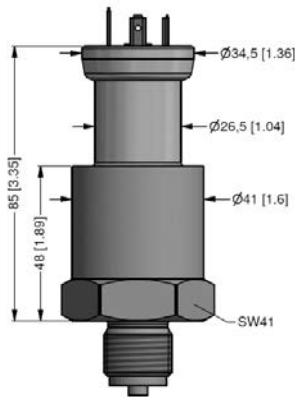
## Electrical connections (dimensions mm / in)



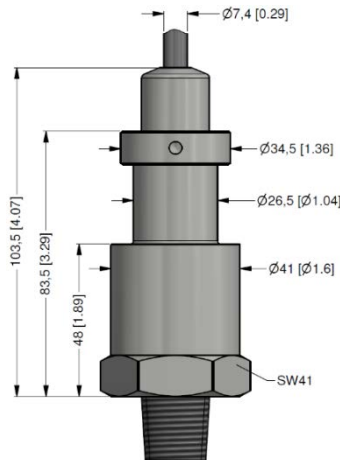
<sup>5</sup> cable versions are delivered with shielded cable (different lengths available);  
for gauge pressure cable with ventilation tube required; tested at 4 bar or 40 mH<sub>2</sub>O for 24 hours

## Dimensions (mm / in)

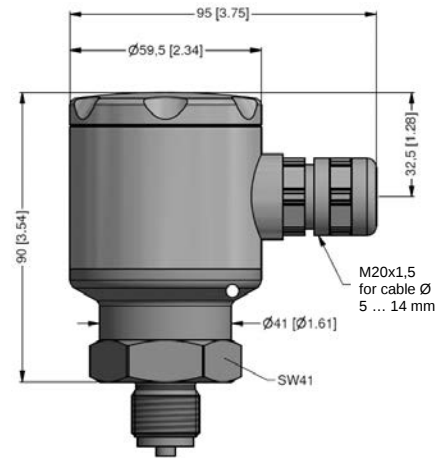
### plug versions



### cable outlet

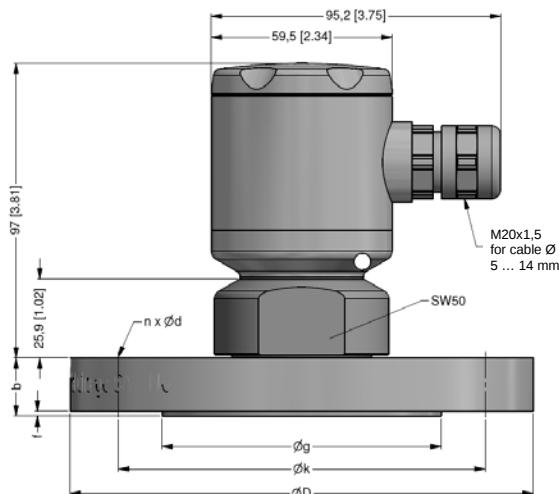


### field housing

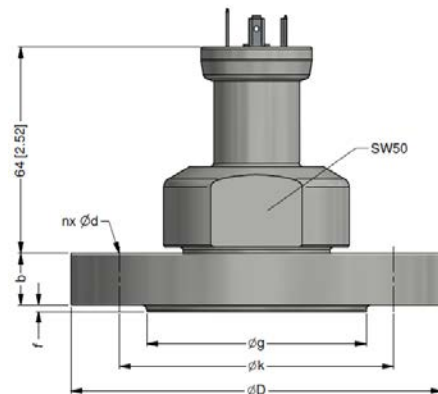


## Mechanical connections (dimensions mm / in)

### flanges



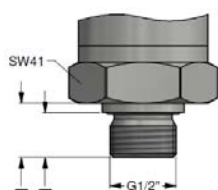
flange with field housing



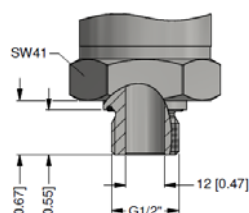
flange with plug version and cable outlet

| size                 | DIN 2501  |           |           |           | ANSI       |            |
|----------------------|-----------|-----------|-----------|-----------|------------|------------|
|                      | DN25/PN40 | DN40/PN40 | DN50/PN40 | DN80/PN16 | 2"/150 lbs | 3"/150 lbs |
| b                    | 18        | 18        | 20        | 20        | 19.1       | 23.9       |
| d                    | 14        | 18        | 18        | 18        | 19.1       | 19.1       |
| D                    | 115       | 150       | 165       | 200       | 152.4      | 190.5      |
| f                    | 2         | 3         | 3         | 3         | 2          | 2          |
| g                    | 68        | 88        | 102       | 138       | 91.9       | 127        |
| k                    | 85        | 110       | 125       | 160       | 120.7      | 152.4      |
| n                    | 4         | 4         | 4         | 8         | 4          | 4          |
| p <sub>N</sub> [bar] | ≤ 40      | ≤ 40      | ≤ 40      | ≤ 16      | ≤ 10       | ≤ 10       |

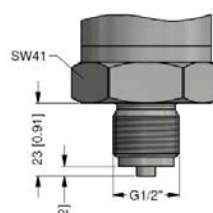
### inch threads



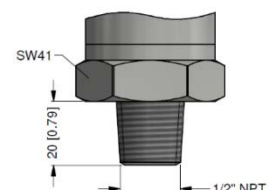
G1/2" 3852



G1/2" DIN 3852  
open port



G1/2" EN 837



1/2" NPT

# Ordering code DMK 458

DMK 458

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| Pressure                                                                     |  |   |   |   |   |  |  |  |         |
|------------------------------------------------------------------------------|--|---|---|---|---|--|--|--|---------|
| in bar, gauge                                                                |  | 5 | 9 | A |   |  |  |  |         |
| in bar, absolute <sup>1</sup>                                                |  | 5 | 9 | B |   |  |  |  |         |
| in mH <sub>2</sub> O, gauge                                                  |  | 5 | 9 | C |   |  |  |  |         |
| in mH <sub>2</sub> O, absolute <sup>1</sup>                                  |  | 5 | 9 | D |   |  |  |  | consult |
| Input                                                                        |  |   |   |   |   |  |  |  |         |
| [mH <sub>2</sub> O] [bar]                                                    |  |   |   |   |   |  |  |  |         |
| 0.4 0.04                                                                     |  | 0 | 4 | 0 | 0 |  |  |  |         |
| 0.6 0.06                                                                     |  | 0 | 6 | 0 | 0 |  |  |  |         |
| 1.0 0.1                                                                      |  | 1 | 0 | 0 | 0 |  |  |  |         |
| 1.6 0.16                                                                     |  | 1 | 6 | 0 | 0 |  |  |  |         |
| 2.5 0.25                                                                     |  | 2 | 5 | 0 | 0 |  |  |  |         |
| 4.0 0.40                                                                     |  | 4 | 0 | 0 | 0 |  |  |  |         |
| 6.0 0.60                                                                     |  | 6 | 0 | 0 | 0 |  |  |  |         |
| 10 1.0                                                                       |  | 1 | 0 | 0 | 1 |  |  |  |         |
| 16 1.6                                                                       |  | 1 | 6 | 0 | 1 |  |  |  |         |
| 25 2.5                                                                       |  | 2 | 5 | 0 | 1 |  |  |  |         |
| 40 4.0                                                                       |  | 4 | 0 | 0 | 1 |  |  |  |         |
| 60 6.0                                                                       |  | 6 | 0 | 0 | 1 |  |  |  |         |
| 100 10                                                                       |  | 1 | 0 | 0 | 2 |  |  |  |         |
| 160 16                                                                       |  | 1 | 6 | 0 | 2 |  |  |  |         |
| 200 20                                                                       |  | 2 | 0 | 0 | 2 |  |  |  |         |
| customer                                                                     |  | 9 | 9 | 9 | 9 |  |  |  | consult |
| Output                                                                       |  |   |   |   |   |  |  |  |         |
| 4 ... 20 mA / 2-wire                                                         |  | 1 |   |   |   |  |  |  |         |
| intrinsic safety 4 ... 20 mA / 2-wire                                        |  | E |   |   |   |  |  |  |         |
| customer                                                                     |  | 9 |   |   |   |  |  |  | consult |
| Accuracy                                                                     |  |   |   |   |   |  |  |  |         |
| standard:                                                                    |  | 2 |   |   |   |  |  |  |         |
| option for p <sub>N</sub> ≥ 0,6 bar:                                         |  | 1 |   |   |   |  |  |  |         |
| customer                                                                     |  | 9 |   |   |   |  |  |  | consult |
| Electrical connection                                                        |  |   |   |   |   |  |  |  |         |
| male and female plug ISO 4400<br>(for cable Ø 4 ... 6 mm)                    |  | G | 1 | 0 |   |  |  |  |         |
| male and female plug ISO 4400 GL <sup>2</sup><br>(for cable Ø 10 ... 14 mm)  |  | G | 0 | 0 |   |  |  |  |         |
| male and female plug ISO 4400 GL <sup>2</sup><br>(for cable Ø 4.5 ... 11 mm) |  | G | 0 | 1 |   |  |  |  |         |
| male plug M12x1 (4-pin) /<br>metal version                                   |  | M | 1 | 0 |   |  |  |  |         |
| cable outlet with TPE-U-cable <sup>3</sup><br>(with ventilation tube)        |  | T | R | 3 |   |  |  |  |         |
| field housing stainless steel 1.4404 (316L)                                  |  | 8 | 8 | 0 |   |  |  |  |         |
| customer                                                                     |  | 9 | 9 | 9 |   |  |  |  | consult |
| Mechanical connection                                                        |  |   |   |   |   |  |  |  |         |
| G 1/2" DIN 3852                                                              |  | 1 | 0 | 0 |   |  |  |  |         |
| G 1/2" EN 837                                                                |  | 2 | 0 | 0 |   |  |  |  |         |
| 1/2" NPT                                                                     |  | N | 0 | 0 |   |  |  |  |         |
| G1/2" DIN 3852 open pressure port                                            |  | H | 0 | 0 |   |  |  |  |         |
| flange DN 25 / PN 40 (DIN 2501)                                              |  | F | 2 | 0 |   |  |  |  |         |
| flange DN 40 / PN 40 (DIN 2501)                                              |  | F | 2 | 2 |   |  |  |  |         |
| flange DN 50 / PN 40 (DIN 2501)                                              |  | F | 2 | 3 |   |  |  |  |         |
| flange DN 80 / PN 16 (DIN 2501) <sup>4</sup>                                 |  | F | 1 | 4 |   |  |  |  |         |
| flange DN 2" / 150 lbs (ANSI B 16.5) <sup>4</sup>                            |  | F | 3 | 2 |   |  |  |  |         |
| flange DN 3" / 150 lbs (ANSI B 16.5) <sup>4</sup>                            |  | F | 3 | 3 |   |  |  |  |         |
| customer                                                                     |  | 9 | 9 | 9 |   |  |  |  | consult |
| Seal                                                                         |  |   |   |   |   |  |  |  |         |
| FKM                                                                          |  | 1 |   |   |   |  |  |  |         |
| andere                                                                       |  | 9 |   |   |   |  |  |  | consult |
| Pressure port                                                                |  |   |   |   |   |  |  |  |         |
| stainless steel 1.4404 (316L)                                                |  | 8 |   |   |   |  |  |  |         |
| copper-nickel-alloy (CuNi10Fe1Mn) <sup>5</sup>                               |  | K |   |   |   |  |  |  |         |
| customer                                                                     |  | 9 |   |   |   |  |  |  | consult |
| Diaphragm                                                                    |  |   |   |   |   |  |  |  |         |
| ceramics Al <sub>2</sub> O <sub>3</sub> 99.9 %                               |  | C |   |   |   |  |  |  |         |
| customer                                                                     |  | 9 |   |   |   |  |  |  | consult |
| Special version                                                              |  |   |   |   |   |  |  |  |         |
| standard                                                                     |  | 0 | 0 | 0 |   |  |  |  |         |
| customer                                                                     |  | 9 | 9 | 9 |   |  |  |  | consult |

<sup>1</sup> nominal pressure ranges absolute from 1 bar

<sup>2</sup> female plug is GL-approved

<sup>3</sup> shielded TPE-U-cable with ventilation tube available in different lengths

<sup>4</sup> DN80/PN16 possible for nominal pressure ranges p<sub>N</sub> ≤ 16 bar; 2"/150 lbs and 3"/150 lbs possible for nominal pressure ranges p<sub>N</sub> ≤ 10 bar

<sup>5</sup> CuNi10Fe1Mn only in combination with G 1/2" open pressure port (code H00); not possible with field housing (code 880)