

**Montageanleitung /
Mounting instructions**Druckmessumformer für Schifffahrt und Offshore /
Pressure Transmitter for Shipbuilding and Offshore

DMK 456, DMK 457, DMK 458, DMP 457

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Alle Rechte vorbehalten / All rights reserved**VOR GEBRAUCH SORGFÄLTIG LESEN
AUFBEWAHREN FÜR SPÄTERES NACHSCHLAGEN****READ THOROUGHLY BEFORE USING THE DEVICE
KEEP FOR FUTURE REFERENCE**

ID: MA_DMU Schiff_D-E | Version: 07.2022.0

Diese Montageanleitung stellt einen Auszug
aus der ausführlichen Betriebsanleitung dar.
Bitte fordern Sie diese an, falls Sie nicht mit
dem Produkt vertraut sind.*These mounting instructions are an excerpt from the complete
operating manual. If you are not familiar with the device, please
order it.*<http://www.bdsensors.de>

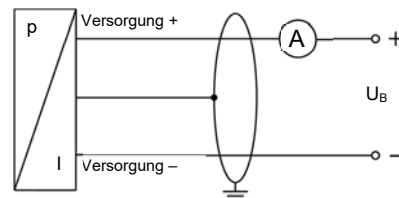
- Technische Änderungen vorbehalten –
- Technical modifications reserved –

Deutsch**WARNUNG** - Um Gefährdungen des Bedienpersonals und
Schäden am Gerät auszuschließen, müssen die beschriebenen
Arbeiten von qualifiziertem Fachpersonal durchgeführt werden.**WARNUNG** - Halten Sie sich an Sicherheitshinweise und
Handlungsanweisungen, die in der Betriebsanleitung aufgeführt
werden. Zusätzlich sind die geltenden Unfallverhütungsvor-
schriften, Sicherheitsbestimmungen sowie landesspezifische
Installationsstandards und die anerkannten Regeln der Technik
einzuhalten.**Haftungs- und Gewährleistungsbeschränkung**Nichtbeachtung der Montage- / Betriebsanleitung und techni-
schen Vorschriften, unsachgemäße und nicht bestimmungs-
gemäße Verwendung, Veränderung oder Beschädigung des
Gerätes führen zu Verlust der Gewährleistungs- und Haf-
tungsansprüche.**Bestimmungsgemäße Verwendung**Stellen Sie sicher, dass das Messmedium mit den medienbe-
rührten Teilen verträglich und das Gerät uneingeschränkt für
die Anwendung geeignet ist. Die im aktuellen Datenblatt auf-
geführten technischen Daten sind verbindlich.**Produktidentifikation**

Typenbezeichnung	Bestellcode	Seriennummer
BD SENSORS pressure measurement DMP 457	BD-Sensors-Str. 1 95199 Thierstein, Germany www.bdsensors.de 600-6001-1-3-G10-100-1-000	SN: 2173779
Eingang: 0...6 bar rel. Ausgang: 4...20 mA/2-Leiter Versorgung: 8...32 VDC	Pinbelegung: Ub+: 1 Ub-: 2 Schirm: ↓	CE 2020

Anschlussbelegungstabelle

Elektrische Anschlüsse	ISO 4400	M12x1 (4-polig)
Versorgung +	1	1
Versorgung –	2	2
Schirm	Massekontakt ⊕	4
Elektrische Anschlüsse	Feldgehäuse	Kabelfarben (IEC 60757)
Versorgung +	VS+	WH (weiß)
Versorgung –	VS-	BN (braun)
Schirm	GND	GYNE (grün/gelb)

Anschlusschaltbild**HINWEIS** - Verwenden Sie für den elektrischen Anschluss
eine geschirmte und verdrehte Mehraderleitung.**Montage****Lebensgefahr durch davonfliegende Teile, austretendes Medium, Stromschlag**

- Montieren Sie das Gerät immer im druck- und stromlosen Zustand!
- Betreiben Sie das Gerät nur innerhalb der Spezifikation! (gemäß Datenblatt)

Lebensgefahr bei nicht bestimmungsgemäßer Installation

- Durchführung der Installation nur von fachspezifisch qualifiziertem Personal, das die Betriebsanleitung gelesen und verstanden hat!

HINWEIS - Verwenden Sie, soweit erforderlich, zur Abdichtung eine geeignete Dichtung, entsprechend Messstoff und zu messenden Druck. Verwenden Sie bei Anschlüsse nach DIN 3852 kein zusätzliches Dichtmaterial wie Werg, Hanf oder Teflonband.**HINWEIS** - Der erforderliche Anzugsmoment richtet sich nach den Gegebenheiten vor Ort (Werkstoff und Geometrie der Aufnahmestelle). Die angegebenen Anzugsmomente gelten für die Druckmessumformer und dürfen nicht überschritten werden!**HINWEIS** - Vermeiden Sie bei der Montage hohe mechanische Spannungen am Druckanschluss! Dies führt zu einer Verschiebung der Kennlinie oder zur Beschädigung, ganz besonders für sehr kleine Druckbereiche.**Anschluss nach DIN 3852**

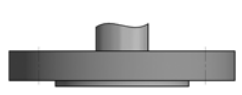
G1/4": ca. 5 Nm
G1/2": ca. 10 Nm

Anschluss nach EN 837

G1/4": ca. 20 Nm
G1/2": ca. 50 Nm

NPT-Anschluss

1/4" NPT: ca. 30 Nm
1/2" NPT: ca. 70 Nm

Flansch-AnschlussBefestigen Sie den Flansch
mit 4 bzw. 8 Schrauben (je
nach Flanschausführung)
am Gegenflansch.**HINWEIS** - Weitere wichtige Informationen entnehmen Sie bitte der ausführlichen Betriebsanleitung.**Zertifikat**Die Druckmessumformer DMK 456,
DMK 457, DMK 458 und DMP 457
erfüllen standardmäßig die Anforderungen
des DNV (Det Norske Veritas).Das Zertifikat können Sie auf
unserer Homepage herunterladen:
<http://www.bdsensors.de>

 TYPE APPROVAL CERTIFICATE		Certificate No: TAA00061608 Revision No: 1
This is to certify: That the Pressure Transmitter with type designation(s): DMK456-457, DMK457, DMK458, DMK459, DMK460, DMK461, DMK462, DMK463, DMK464, DMK465, DMK466, DMK467, DMK468, DMK469, DMK470, DMK471, DMK472, DMK473, DMK474, DMK475, DMK476, DMK477, DMK478, DMK479, DMK480, DMK481, DMK482, DMK483, DMK484, DMK485, DMK486, DMK487, DMK488, DMK489, DMK490, DMK491, DMK492, DMK493, DMK494, DMK495, DMK496, DMK497, DMK498, DMK499, DMK500, DMK501, DMK502, DMK503, DMK504, DMK505, DMK506, DMK507, DMK508, DMK509, DMK510, DMK511, DMK512, DMK513, DMK514, DMK515, DMK516, DMK517, DMK518, DMK519, DMK520, DMK521, DMK522, DMK523, DMK524, DMK525, DMK526, DMK527, DMK528, DMK529, DMK530, DMK531, DMK532, DMK533, DMK534, DMK535, DMK536, DMK537, DMK538, DMK539, DMK540, DMK541, DMK542, DMK543, DMK544, DMK545, DMK546, DMK547, DMK548, DMK549, DMK550, DMK551, DMK552, DMK553, DMK554, DMK555, DMK556, DMK557, DMK558, DMK559, DMK560, DMK561, DMK562, DMK563, DMK564, DMK565, DMK566, DMK567, DMK568, DMK569, DMK570, 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**Montageanleitung /
Mounting instructions**Druckmessumformer für Schifffahrt und Offshore /
Pressure Transmitter for Shipbuilding and Offshore

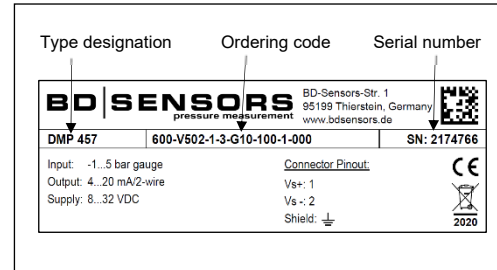
DMK 456, DMK 457, DMK 458, DMP 457

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AUFBEWAHREN FÜR SPÄTERES NACHSCHLAGEN****READ THOROUGHLY BEFORE USING THE DEVICE
KEEP FOR FUTURE REFERENCE**

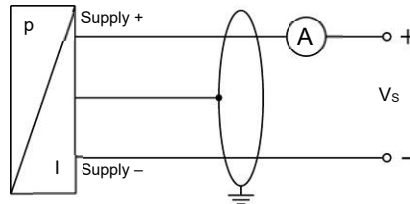
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Diese Montageanleitung stellt einen Auszug
aus der ausführlichen Betriebsanleitung dar.
Bitte fordern Sie diese an, falls Sie nicht mit
dem Produkt vertraut sind.These mounting instructions are an excerpt from the complete
operating manual. If you are not familiar with the device, please
order it.<http://www.bdsensors.de>

- Technische Änderungen vorbehalten –
- Technical modifications reserved –

English**WARNING** - In order to avoid hazards to operators and
damages to the device, the following instructions have to be
performed by qualified technical personnel.**WARNING** - Adhere to the safety and operating instructions
stated in the operation manual. Effective regulations on occupa-
tional safety, accident prevention as well as national installation
standards and approved engineering techniques must in addi-
tion be complied with.**Limitation of liability and warranty**Failure to observe mounting instructions / operating manual
or technical regulations, improper use and use not as in-
tended, and alteration of or damage to the device will result in
the forfeiture of warranty and liability claims.**Intended use**Ensure that the medium is compatible with the media-wetted
parts and that the device is suitable for the application with-
out restrictions. The technical data listed in the current data
sheet is binding.**Product identification****Pin configuration**

Electrical connections	ISO 4400	M12x1 (4-pin)
Supply +	1	1
Supply -	2	2
Shield	ground pin ⊕	4
Electrical connections	field housing	cable colours (IEC 60757)
Supply +	VS+	WH (white)
Supply -	VS-	BN (brown)
Shield	GND	GYNE (green-yellow)

Wiring diagram**NOTE** - Use a shielded and twisted multicore cable for the
electrical connection.**Mounting****Danger of death from airborne parts, leaking fluid, electric shock**

- Always mount the device in a depressurized and de-energized condition!
- Operate the device only within the specification! (according to data sheet)

Danger of death from improper installation

- Installation must be performed only by appropriately qualified persons who have read and understood the operating manual.

NOTE - Use a suitable seal for the medium and the pressure to be measured, if necessary. For connections according to DIN 3852 do not
use any additional sealing material such as yarn, hemp or Teflon tape!**NOTE** - The permissible tightening torque depends on the conditions on site (material and geometry of the mounting point). The specified
tightening torques are valid for the transmitters and must not be exceeded!**NOTE** - When installing the device, avoid high mechanical stresses on the pressure port! This will result in a shift of the characteristic
curve or to damage, in particular in case of very small pressure ranges.**connection acc. to DIN 3852**

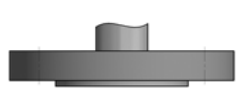
G1/4": approx. 5 Nm
G1/2": approx. 10 Nm

connection acc. to EN 837

G1/4": approx. 20 Nm
G1/2": approx. 50 Nm

NPT connection

1/4" NPT: approx. 30 Nm
1/2" NPT: approx. 70 Nm

flange connections

Fasten the flange with 4
resp. 8 screws (depending
on flange version) on the
counter flange.

NOTE - For more information, please read the detailed operating manual.**Certificate**The pressure transmitters DMK 456, DMK
457, DMK 458 and DMP 457 fulfil the re-
quirements of DNV (Det Norske Veritas).The certificate is available for download on
our homepage: <http://www.bdsensors.de>**TYPE APPROVAL CERTIFICATE**This is to certify:
That the Pressure Transmitterwith type designation(s):
DMP/DMK 457, DX19-DMK 457, DX19-DMP 457, DMK 457-KRO, DX19-DMK 457-KRO, DMK 458, DX14A-DMK 458,
DMK 458, DX14A-DMK 458Issued to:
BD SENSORS GmbH
Thierstein, Bayern, Germanyis found to comply with:
DNV rules for classification – Ships, offshore units, and high speed and light craftApplication :
Product(s) approved by this certificate is/are accepted for installation on all vessels classed by DNV.

Location classes:

Temperature D
Humidity B
Vibration B
EMC B
Enclosure D

Issued at Hamburg on 2022-06-07

This Certificate is valid until 2022-12-11
DNV local station: **Augsburg**Approval Engineer: **Oliver Gossard**for DNV
Digital Signatures: **Joannis Papadimitriou**
London, UK (UK, UK, UK)Approval Engineer: **Joannis Papadimitriou**
Head of Section

This Certificate is subject to terms and conditions. Any significant change in design or construction may render this Certificate invalid.

The certificate holder must ensure that the certificate is kept up to date and that the certificate is not used for any other purpose. The certificate holder must ensure that the certificate is not used for any other purpose. The certificate holder must ensure that the certificate is not used for any other purpose.

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