

**Montageanleitung /
Mounting instructions**

Druckmessumformer / Pressure Transmitter,
Einschraubsonde / Screw-in Transmitter
OEM-Druckmessumformer / OEM Pressure Transmitter

DMK 331, DMK 331P, DMK 351, DMK 351P, DMK 387,
DMP 311, DMP 320, DMP 321, DMP 331, DMP 331i,
DMP 331P, DMP 331Pi, DMP 333, DMP 333i, DMP 334,
DMP 334i, DMP 335, DMP 335, DMP 336, DMP 335P, DMP 339,
DMP 339P, DMP 343, LMK 331, LMK 351, LMP 331,
LMP 331i, 17.6XX, 17.6XX G, 18.6XX, 18.6XX G,
26.6XX, 26.6XX G, 30.6XX, 30.6XX G

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DMP 331



**VOR GEBRAUCH SORGFÄLTIG LESEN
AUFBEWAHREN FÜR SPÄTERES NACHSCHLAGEN
READ THOROUGHLY BEFORE USING THE DEVICE
KEEP FOR FUTURE REFERENCE**

ID: MA_DMU-ES-OEM_D-E | Version: 07.2021.0

Diese Montageanleitung stellt einen Auszug
aus der ausführlichen Betriebsanleitung dar.
Laden Sie sich diese auf unserer Homepage
herunter, falls Sie nicht mit dem Produkt
vertraut sind.



*These mounting instructions are an excerpt from the complete
operating manual. It may be downloaded from our homepage,
if you are not familiar with the device.*

<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 addition
be complied with.

Limitation of liability and warranty

Failure to observe mounting instructions / operating manual or
technical regulations, improper use and use not as intended,
and alteration of or damage to the device will result in the
forfeiture of warranty and liability claims.



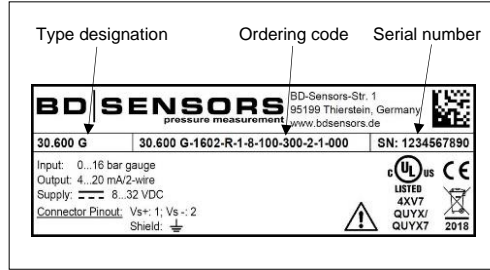
APPLIED MEASUREMENTS LTD.
Transducer Specialists...

appmeas.co.uk | info@appmeas.co.uk | +44 (0) 118 981 7339

Intended use

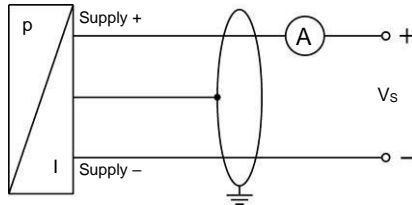
Ensure that the medium is compatible with the media-wetted
parts and that the device is suitable for the application without
restrictions. The technical data listed in the current data sheet is
binding.

Product identification

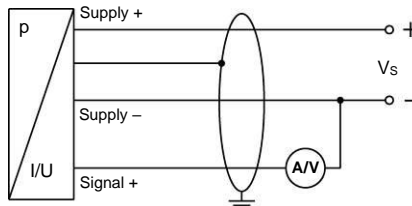


Wiring diagrams

2-wire-system (current)



3-wire-system (current / voltage)



NOTE - For the electrical connection a shielded and twisted
multicore cable is recommended.

Pin configuration

optionally with communication interface RS232 for
DMP 331i / DMP 331Pi / DMP 333i / DMP 334i / LMP 331i:

| Electrical connection | Binder 723 (7-pin) |
|-----------------------|--------------------|
| Supply + | 3 |
| Supply - | 1 |
| Signal + (for 3-wire) | 6 |
| Shield | 2 |
| RxD | 4 |
| TxD | 5 |
| GND | 7 |

NOTE - The communication interface RS232 may not be
connected directly to the PC. A suitable adapter is available as
an accessory.

| Electrical connection | ISO 4400 | Binder 723 (5-pin) | cable colours (IEC 60757) | field housing | Buccaneer (4-pin) | TRIM TRIO® (4-pin) | Bayonet MIL-C-26482 (10-6) | |
|-----------------------|------------------|--------------------|---------------------------|---------------|-------------------|--------------------|----------------------------|--------|
| | | | | | | | 2-wire | 3-wire |
| Supply + | 1 | 3 | WH (white) | IN + | 1 | 1 | A | A |
| Supply - | 2 | 4 | BN (brown) | IN - | 2 | 2 | B | D |
| Signal + (for 3-wire) | 3 | 1 | GN (green) | OUT + | 3 | 3 | - | B |
| Shield | ground contact ⊕ | 5 | GNYE (green-yellow) | ⊕ | 4 | 4 | pressure port | |

| Electrical connection | M12x1 metal (4-pin) | | Micro | | |
|-----------------------|---------------------|--------------|---------------|------------------|------------------|
| | Code | M10 / M20 | M13 (17.620G) | C10 | CB0 (17.620G) |
| Supply + | 1 | 1 | 1 | 1 | 1 |
| Supply - | 2 | 3 | 3 | 2 | 3 |
| Signal + (for 3-wire) | 3 | 3 | 2 | 3 | 2 |
| Shield | 4 | plug housing | plug housing | ground contact ⊕ | ground contact ⊕ |

NOTE - The pin configuration for different electrical connections can be found on the manufacturing label.

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.

Danger of death from explosion in oxygen applications when used improperly

- Follow the instructions in the operating manual!

NOTE - For devices with **3-A symbol**, **EHDG certificate** or **UL marking** the corresponding specifications in the operating manual must be observed.

NOTE - Use a suitable seal for the medium and the pressure to be measured, if necessary.

NOTE - 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!

connection according to DIN 3852

knurled ring: only tighten by hand
wrench size of metal:

- G1/4": approx. 5 Nm
- G1/2": approx. 10 Nm
- G3/4": approx. 15 Nm
- G1": approx. 20 Nm
- G1 1/2": approx. 25 Nm

wrench size of plastic: max. 3 Nm

connection according to EN 837

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

NPT connections

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

1/4" flare

max. 10 Nm

NOTE - note the permitted pressure and material acc. to EN 837.

dairy pipe connection

- Centre the dairy pipe connection in the counterpart.
- Screw the cup nut onto the mounting part.
- Then tighten it using a hook wrench.

Clamp- and Varivent® connections

- Centre the connection above the counterpart with seal.
- Fit the device with a suitable fastening element (e. g. semi-ring or retractable ring clamp) according to the supplier's instructions.

flange connections

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

internal threads M20x1.5 and 9/16" UNF (for DMP 334 / DMP 334i)

Screw the high-pressure fitting into the internal thread of the pressure transmitter and tighten it properly. (permissible tightening torque for transmitter: max 120 Nm)

Danger of injury due to wrong installation

- Do not use any seal!

G1" cone

p_N < 10 bar: 30 Nm
p_N ≥ 10 bar: 60 Nm