

BDSENSORS

Montageanleitung / Mounting instructions

Elektronisches Digitalmanometer DM 2XX Electronic Pressure Gauge DM 2XX

Elektronischer (Differenz-) Druckschalter DS 2XX/DS 4XX Electronic (Differential) Pressure Switch DS 2XX/DS 4XX

DM 200, DM 201, DS 200, DS 200 P, DS 201, DS 201 P. DS 202, DS 210, DS 214, DS 217, DS 226, DS 233, DS 400, DS 400 P, DS 401, DS 401 P



VOR GEBRAUCH SORGFÄLTIG LESEN AUFBEWAHREN FÜR SPÄTERES NACHSCHLAGEN

READ THOROUGHLY BEFORE USING THE DEVICE **KEEP FOR FUTURE REFERENCE**

ID: MA_DM2XX-DS2XX_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.

vorbel

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 occupational 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.

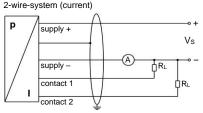
Intended use

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.

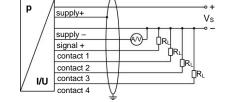
Product identification

BDS	BENSO	JRS	BD-Sensors-Str 5199 Thierstei	n, Germany	1.S
DS 200	780-M250-1-	780-M250-1-1-5-100-300-1-000		SN: 1234567890	
Input: -2500 mbar gauge Output: 420 mA/2-wire Supply: 1336 VDC		Connects Vs+: 1 Vs -: 2 SP1: 3	or Pinout Shield: 士		Ce I

Wiring diagrams

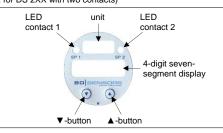


3-wire-system (current/voltage)



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

Operating and display elements (e.g. for DS 2XX with two contacts)



- **▲-button:** enter operating mode move forward in the menu system increase the displayed value
- ▼-button: enter operating mode move backward in the menu system decrease the displayed value

both buttons simultaneously: confirm the menu items and set values

Pin configuration

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Electrical connections	M12x1, plastic (5-pin)	M12x1, metal (5-pin)	M12x1, plastic (8-pin)	Binder series 723 (5-pin)	ISO 4400	cable colours (DIN 47100)	
Supply +	1	1	1	1	1 WH (white)		
Supply –	3	3	3	3	2	BN (brown)	
3-wire: Signal +	2	2	2	2	3 GN (greer		
Contact 1	4	4	4	4	3 GY (grey)		
Contact 2	5	5	5	5	- PK (pink)		
Contact 3	-	-	6	-	-		
Contact 4	-	-	7	-	-	-	
Shield	via pressure port	plug-housing/ pressure port	via pressure port	plug-housing/ pressure port	ground pin 🕀	GNYE (green / yellow)	

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, EHEDG certificate or UL marking the corresponding specifications in the complete 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 pressure gauge / pressure switch and must not be exceeded!

connection according to EN 837 connection according to DIN 3852 NPT connections knurled ring: only tighten by hand wrench size of steel G1/4": approx. 5 Nm G1/4": approx. 20 Nm 1/4" NPT: approx. 30 Nm G1/2": approx. 50 Nm G1/2": approx. 10 Nm 1/2" NPT: approx. 70 Nm G3/4": approx. 15 Nm NOTE - note the permitted G1": approx. 20 Nm pressure and material acc. wrench size of plastic: max. 3 Nm to EN 837 Clamp- and Varivent® connections dairy pipe connection G1" cone - Centre the dairy pipe connection - Centre the connection above the in the counterpart. counterpart with seal. - Screw the cup nut onto the - Fit the device with a suitable fastening mounting part. element (e. g. semi-ring or retractable ring - Then tighten it using a hook wrench. clamp) according to the supplier's p_N < 10 bar: 30 Nm p_N ≥ 10 bar: 60 Nm

mounting steps for DS 233 (differential pressure switch)

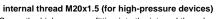
Connect the reference pressures as follows:

input p+: higher pressure input p-: lower pressure G 1/8" Internal thread:

- Screw the fittings into the threads as far as possible.
- Tighten the fittings properly (max. 10 Nm).
- tube nozzle Ø 6.6 x 11:

Slip your flexible tubes (Ø 6 mm) onto the tube nozzles as far as possible.

instructions.



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

