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Operating Manual

Digital Gauge DM01, DM01-500, DM01-500HD









READ THOROUGHLY BE FORE USING THE DEVICE KEEP FOR FUTURE REFERENCE

ID: BA_DM01X_EX_E_SRO | Version: 01.2022.0

1. General and safety-related information on this operating manual

This operating manual enables safe and proper handling of the product, and forms part of the device. It should be kept in close proximity to the place of use, accessible for staff members at

All persons entrusted with the mounting, installation, putting into service, operation, maintenance, removal from service, and disposal of the device must have read and understood the operating manual and in particular the safety-related information

The following documents are an important part of the operating manual:

- Data sheet
- Type-examination certificate

For specific data on the individual device, please refer to the

Download this by accessing www.bdsensors.cz or request it by or phone: +420 572 411 011

The explosion-proof versions of our products are variants of the standard products.

In addition, the applicable accident prevention regulations, safety requirements, and country-specific installation standards as well as the accepted engineering standards must be observed.

For the installation, maintenance and cleaning of the device, the relevant regulations and provisions on explosion protection (VDE 0160, VDE 0165 and/or EN 60079-14 as amended) as well as the accident prevention regulations must absolutely be observed. The device was designed by applying the following standards:

EN IEC 60079-0:2018 EN 60079-11:2012

1.1 Symbols used



- Type and source of danger
- Measures to avoid the danger

Warning word	Meaning
DANGER	Imminent danger! Non-compliance will result in death or serious injury.
WARNING	Possible danger! Non-compliance may result in death or serious injury.
CAUTION	Hazardous situation! Non-compliance may result in minor or moderate injury.
<u>^</u>	Hazardous situation! Non-compliance may result

NOTE - draws attention to a possibly hazardous situation that may result in property damage in case of non-compliance

Precondition of an action

1.2 Staff qualification

Qualified persons are persons that are familiar with the mounting, installation, putting into service, operation, maintenance, removal from service, and disposal of the product and have the appropriate qualification for their activity.

This includes persons that meet at least one of the following three requirements:

- They know the safety concepts of metrology and automation technology and are familiar therewith as project staff.
- They are operating staff of the measuring and automation systems and have been instructed in the handling of the systems. They are familiar with the operation of the devices and technologies described in this documentation.
- They are operating staff of the measuring and automation systems and have been instructed in the handling of the systems. They are familiar with the operation of the devices and technologies described in this documentation.

All work with this product must be carried out by qualified persons!

1.3 Intended use

The battery powered digital gauge has been designed for extremely high demands in the sector of calibration and test technology. It can be easily and quickly installed in situ.

This operating manual applies to devices with explosion protection approval and is intended for the use in IS-areas. A device has an explosion-protection approval if this was specified in the purchase order and confirmed in our order acknowledgement. In addition, the manufacturing label includes

The user must check whether the device is suited for the selected use. In case of doubt, please contact our sales department: sale@bdsensors.cz | phone: +420 572 411 011 BD|SENSORS assumes no liability for any wrong selection and the consequences thereof!

Permissible media are gases or liquids, which are compatible with the media wetted parts described in the data sheet. In addition, it has to be ensured, that this medium is compatible with the media wetted parts.

The technical data listed in the current data sheet are engaging and must absolutely be complied with. If the data sheet is not available, please order or download it from our homepage: http://www.bdsensors.cz



Danger through incorrect use In order to avoid accidents, use the device only in accordance with its intended use

1.4 Limitation of liability and warranty

Failure to observe the instructions 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.

1.5 Safe handling

NOTE - Treat the device with care both in the packed and unpacked condition!

 $\ensuremath{\mathbf{NOTE}}$ - The device must not be altered or modified in any way!

NOTE - Do not throw or drop the device!

NOTE - Excessive dust accumulation (over 5 mm) and complete coverage with dust must be prevented!

NOTE - The device is state-of-the-art and is operationally reliable. Residual hazards may originate from the device if it is used or operated improperly!

1.6 Safety technical maximum values

EU-type examination certificate: IBExU12ATEX 1107 X Device type: AX6-DM01 Identification:

Standard variant for zone 1: II 2G Ex ia IIB T4 Gb With conductive front foil for zone 0: II 1G Ex ia IIC T4 Ga Ambient temperature range:
Display module: -10 ... 55 °C
Transmitter module: -20 ... 70 °C (with 1G up to +60 °C)

Power: 3x 1.5 V / AA: DURACELL Plus Power batteries

1.6.1. Specific conditions of use

- The ambient temperature range for the display module is fixed from -10°C to +55 °C. The range is -20°C to +70°C (at 1G to +60 °C) applies to the transmitter.
- The precision digital manometers type AX6-DM01 and AX6-DL01 may be operated only in combination with the related pressure transmitters with the EC-type examination certificate IBExU10ATEX1026 U.
- Opening the battery compartment cover and the removal of the protective cover of the interface connector must not be done in a hazardous atmosphere. - The operation of the communication interface in explosive
- Only use the batteries specified: 3x 1.5 V/AA Duracell Power
- For applications in explosion group IIC, the metal case is to ground safely

1.7 Scope of delivery

Check that all parts listed in the scope of delivery are included free of damage, and have been delivered according to your purchase order:

- digital gauge (display / pressure sensor module)
- this operating manual
- accessories (option)

1.8 UL-approval (for devices with UL-marking)

The UL approval was effected by applying the US standards, which also conform to the applicable Canadian standards on

2. Product identification

The device can be identified by means of the type plate with order code. The most important data can be gathered there from.

BD SE	NSORS pressure measurement	Hradistska 8 687 08 Buch www.bdsen	llovice, CZ	
AX16-DM 01	DM01-A2E		SN: 012	34567
Transfer rate: 38	ery: DURACELL Plus P			0044 X

BD SE	NSORS®	Hradistska 817 687 08 Buchlov Tel.: +420 572	vice, CZ	
DM 01	M0K-2503-E-B1-100-1-00	0	SN:	01234567
Input: 0250 bar g IBExU12ATEX1107		<	ξx> C	€ <u>₹</u>

Fig. 1 Example of manufacturing label

NOTE - The type plate must not be removed!

3. Mounting

3.1 Mounting and safety instructions Danger of death from explosion,

DANGER	shock Always mount the device (pressure transmitter module) in a depressurized condition and apart from the display! Do not install or open the device (e.g. for changing batteries) while there is a risk of explosion.
	Furthermore, no communication and connection of the cables is allowed.
	This device may only be installed by qualified technical personnel who has



read and understood the operating manual! - Do not use the display to tighten or

solve to the mechanical connection of

rne parts, leaking fluid, electric

the pressure transmitter module! NOTE - Operation of the display AX6-DM01 with the EC-Type Examination certificate IBExU12ATEX1107 X is permitted only in combination with the accompanying pressure transmitter with the EC-Type Examination certificate IBExU10ATEX 1026U!

NOTE - If both equipments have not been used in the scheduled combination (display AX6-DM01 / pressure transmitter with certificate IBExU10 ATEX 1026 U), then the complete system has to be put immediately out of operation! A potentially damage of one or both devices could have been occurred! The device(s) consequently lose the IS-certification when using not for intended purpose!

NOTE - Handle the unprotected diaphragm very carefully - it is very sensitive and may be easily damaged.

NOTE - To avoid damaging the diaphragm, remove packaging and protective cap only directly before starting up the device. A delivered protective cap must be stored!

NOTE - Place the protective cap on the pressure port again nediately after disassembling.

 $\ensuremath{\mathbf{NOTE}}$ - Do not use any force when installing the device to prevent damage of the device and the plant!

NOTE - Never use the display as a mounting / dismounting aid, otherwise the device or the plug-in connections will be irreparably damaged. For mounting or dismounting the device, only use the hexagon on the pressure port.

NOTE - Take note that no inadmissibly high mechanical stresses occur at the pressure port as a result of the installation. since this may cause a shifting of the characteristic curve or to the

NOTE - In hydraulic systems, position the device in such a way that the pressure port points upward (venting).

NOTE - Provide a cooling line when using the device in steam

NOTE - If the device is installed with the pressure port pointing upwards, ensure that no liquid drains off on the device. This could result in humidity and dirt blocking the gauge reference in the housing, and could lead to malfunctions. If necessary, dust and dirt must be removed from the edge of the screwed joint of the electrical connection.

 $\ensuremath{\mathbf{NOTE}}$ - The specified tightening torques must not be exceeded!

NOTES - for mounting outdoors or in a moist environment:

- Make sure the ambient temperature will not fall below the dew point. These conditions may caused the water condensation inside the display unit and damage the electronics components. If condensate occurs inside the unit, remove the battery cover and allow the device to dry at normal min temperature 24 hours.
- Connect the device electrically straightaway after mounting or prevent moisture penetration, e.g. by a suitable protective cap. (The protection rating specified on the data sheet applies to the connected device.)
- Select the mounting position such that splashed and condensed water can drain off. Stationary liquid on sealing surfaces must be excluded!
- Mount the device such that it is protected from direct solar radiation. In the most unfavourable case, direct solar radiation leads to the exceeding of the permissible operating temperature. This must be excluded if the device is used in any explosion-hazardous area!
- A device with gauge reference in the housing (small hole next to the electrical connection) must be mounted such that the gauge reference is protected against dirt and humidity. If the transducer is exposed to liquid admission, the gauge reference will be blocked, and the equalization of air pressure will be prevented. In this condition, a precise measurement is impossible and damage to the transducer may occur.

3.2 Conditions for oxygen applications



Danger of death from explosion - when used improperly

Make sure that your device was ordered for oxygen applications and delivered accordingly. (see type plate - order code ends with the numbers "007"

Unpack the device directly prior to the installation

Skin contact during unpacking and installation must be avoided to prevent fatty residues remaining on the device. Wear safety

The entire system must meet the requirements of BAM (DIN 19247)!

For oxygen applications > 25 bar, transducer types without seals are recommended.

Transmitters with o-rings of FKM Vi 567: permissible maximum values: 25 bar / 150° C (BAM approval)

3.3 Mounting steps for connections according to DIN 3852

NOTE - Do not use any additional sealing material such as yarn, hemp or Teflon tape!

- The O-ring is undamaged and seated in the designated
- groove.

 The sealing face of the mating component has a flawless
- surface. (R_z 3.2) Screw the device into the mating thread by hand.
- Devices equipped with a knurled ring:
- only tighten by hand Devices with a wrench flat must be tightened using a suitable open-end wrench. Wrench flat made of steel:

G1/4": approx. 5 Nm; G1/2": approx. 10 Nm; G3/4":approx. 15 Nm; G1": approx. 20 Nm

3.4 Mounting steps for connections according to EN 837

- A suitable seal for the measured fluid and the pressure to be measured is available. (e.g. a copper seal)
- The sealing face of the mating component has a flawless surface. (Rz 6.3)
- Screw the device into the mating thread by hand
- Then tighten it using an open-end wrench: G1/4": approx. 20 Nm; G1/2": approx. 50 Nm

3.5 Mounting steps for NPT connections

- Suitable fluid-compatible sealing material, e.g. PTFE tape, is available
- Screw the device into the mating thread by hand
- Then tighten it using an open-end wrench: 1/4" NPT: approx. 30 Nm; 1/2" NPT: approx. 70 Nm

NOTE - The specified tightening torques must not be

3.6 Mounting steps for internal threads M20x1.5 and 9/16" UNF (for DM01-500 HD)



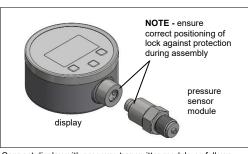
Danger of injury - Due to wrong installation

- Do not use any seal!

NOTE - The high-pressure tube will seal metal-to-metal in the chamfer of the pressure port. (sealing cone 60°)

- Screw the high-pressure fitting into the internal thread of
- Then tighten it using an open-end wrench. The required tightening torque depends on the manufacturer's specifications for the high-pressure pipe you are using. (permissible tightening torque for pressure transmitte

4. Connecting display / pressure sensor module



Connect display with pressure transmitter module as follows:

- bring together carefully the display with pressure transmitter
- press the display sturdy pressure transmitter module to this engages

NOTE - Before disconnecting display and pressure sensor module make sure that the device is switched off.

NOTE - While the data logger is active, display and pressure sensor module must not be disconnected!

5. Supply / changing the batteries



Danger of death from explosion Do not open the housing (e.g. for changing batteries) while an explosion hazard exists!

Before initial start-up the insulation foil has to be removed. Carry out steps 1 - 3 and 5 in this regard. As soon as in the display the announcement of "battery" is

shown, a battery change is required. Follow steps 1, 2, 4, and 5 in this regard: unscrew three fixing screws with a suitable screwdriver

- take the battery case cap
- remove the insulation foil before initial start-up
- exchange the batteries (3 x 1.5 V AA

and so a damage the device!

lock the device after that properly NOTE - An incorrect usage may cause a leak out of batteries

NOTE - Use only the following batteries that have Ex and UL approvals: 1.5V / AA DURACELL Plus Power Battery NOTE - Never combine batteries of different types or old

with new ones! NOTE - Make sure that the batteries are connected correctly with the corresponding contacts in the battery tray.

NOTE - Never try to charge batteries, demount them, or



⁴Fig. 3 Battery case and communication interface

6. Initial start-up



Danger of death from explosion

Operate the device only within the specification! (according to data sheet and EC-type-examination certificate)

Do not install or open the device (e.g. for changing batteries) while there is a risk of explosion. Furthermore, no communication and connection of the cables is allowed

- The device has been installed properly
- The device does not have any visible defect.
- The insulation foil was removed from the battery case

6.1 Data logger The battery powered digital gauge disposes of an integrated data logger. The measuring values stored away in the device can be selected above the communication interface by means of software BD|DAQ (optionally included in delivery). Free version BDIDAQ software is available via homepage https://www.bdsensors.cz.

6.2 PC-connection

Connect device with a computer as follows:

- Unscrew the protective screwing of the communication interface with a suitable slit screwdriver.
- Connect the handle plug of the connecting cable (included in delivery) with the interface socket of the device. Connect the USB plug with a free USB connection on the computer.
- OM driver and data logger software BD|DAQ
- After the use, disconnect the connection and lock the protection screwing again properly.

7. Operation

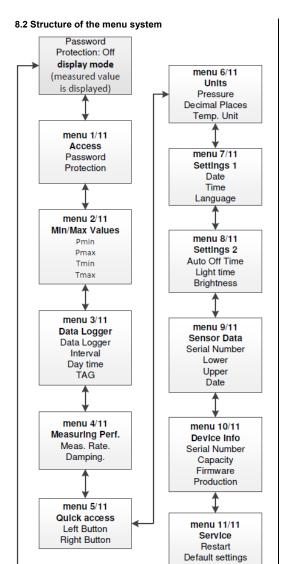
7.1 Operating- and display elements (display)



Fig.4 Display and operating foil

The display of the measuring value as well as configuring the single parameters occurs menu-steered about a LC display capable of graphic arts. The single functions are regulated on the basis of three-front-sided arranged push buttons.

The menu system is closed, thereby one can "browse" forward as well as backward by the single setting menus to reach to the desired setting point.



Switching on	Switching on without status message, with "Left button" and "Right button" key possible.
	Switching on with status message, only possible with button "Menu key" (middle button). Status message (appears in the display for approx. 2 seconds):
	- Memory usage: in percent - TAG: Measuring point designation in text form
	- Battery: Status of the battery charge
Menu 1/11	- Firmware: installed version Password: **** (a four-digit, freely combinable statement consisting of numbers, letters and special characters)
Access	- Protection [Off]: unrestricted operation - Protection [On]: operation only possible after password input
	(Select menu item "Password" with "Edit" → Press "<<" or ">>" → Set value → continue with "Next". Set password and remember! → Press "Next" to "Protection" sub-item → Press "<<" or ">>" → Activate protection [On] or
	deactivate protection [Select] → confirm with "Next" and continue to menu bar.)
	NOTE - No connection to the evaluation software BD DAQ, if password is active!
Menu 2/11	NOTE - If you have forgotten your password, contact the manufacturer! Display of min / max values
Min/Max Values	P_{min} - Minimum pressure display: The minimum pressure applied during measuring is shown in the display. P_{max} - Maximum pressure display: The maximum pressure applied during measuring is shown in the display.
	T _{min} - Minimum temperature display: The minimum temperature during measuring is shown in the display. T _{max} - Maximum temperature display: The maximum pressure applied during measuring is shown in the display.
	Possible options: reset value [Reset? Sure?]
	(Resetting of a value: select the menu point with "Edit" → button ">>" operate. There appears the question
	"Reset?" \to once more operate the button ">>". It seems "Sure?" additional confirmation whether the value should be put back \to repeated confirming with the button ">>" takes over topically adjoining pressure as a minimum
Menu 3/11	value.) Data Logger configuration
Data Logger	the following settings are possible: linearly [Linear] (value admission to the counter level 600798 is reached), cyclically ([Loop] (after the value is reached in 600798, the data logger automatically begins the values once more
	to grasp and, besides, overwrite the old values)
	or [Off] (in the display appears "D", if the data logger is activated and goes out if the data logger is off). Intervals to the memory of the measuring values (pressure / temperature):
	Interval: second [1-99 sec.]; minute [1-99 min]; hour [1-99 h]; or day [1-99 days],
	the time of day is to be set additionally; Milliseconds [20 msec.], only possible if the sampling rate is set to $50 / sec.$ in menu $4/11$ (measuring performance).
	Time of day: Measured value recording: at what time the value should be recorded (only effective for the interval setting "day").
	TAG: Measuring point inscription, factory set BD Sensors. The setting can be changed by the user.
Menu 4/11	NOTE - While the data logger is active, the display and pressure sensor module must not be disconnected! Sample rate : Possible settings [1 / sec.], [2 / sec.] or [50 / sec.] only if the interval is set to [20 msec.] in menu 3/11
Measuring Perf.	(Data Logger).
	Damping: Damping can be set in one-second increments between [1 sec.] and [10 sec.], or disabled by selecting [Off].
Menu 5/11 Quick access	Button configuration: Left button / Right button Left / Right button: configuration of functions: [Min], [Max], [Light], [Zero], [Reset], [Single], [Off]
Quick access	Description of the functions:
	- [Min] / [Max] minimum / maximum pressure value is shown in the display - [Light] The backlight will turn on only when the illumination time in the 8/11 menu is set to 1-10 s.
	- [Zero] the zero point is set automatically, the display shows "Z" - [Reset] the set zero point is reset, goes out
	Single the measured values are recorded individually after pressing the button - [Off] switches off the display (standby), provided the data logger is deactivated.
Menu 6/11	Adjustment of pressure unit
Units	adjustable units: [bar], [PSI], [mbar], [mH2O], [inHg], [cmHg], [mmHg], [hPa], [kPa], [kPa], [kg/cm2], [inH2O], [mmH2O] or [User] (the user-defined unit [User] can only be programmed using the software BD DAQ), all
	pressure-related parameters are converted Setting the decimal places
	settable decimal places: standard [Std], one decimal place [+1] or two decimal places [+2] Setting the temperature unit
Menu 7/11	adjustable units: degrees Celsius [°C], degrees Fahrenheit [°F] or Kelvin [K] set (factory setting [°C]) Setting the date, time and language
Settings 1	Adjustable options: The date in the format [T.M.JJJJ], the time in the format [hh: mm] and the language [German]
Menu 8/11	or [English]. Setting the switch-off time, the lighting and the brightness
Settings 2	Off time: Setting the automatic switch-off in minutes. The automatic shut-off can be configured in increments of [1 min], [2 min], [3 min], [4 min] or [5 min] (the timer is activated 30 sec. before switching it off) or disabled by the [Off]
	option. After deactivation, the precision digital pressure gauge is in continuous operation. Illumination: the illumination duration can be set in one-second increments between [1 s] and [10 s] and in ten-
	second increments between [20 s] and [120 s], or disabled by selecting [Off] and enabling [On]. Note: For
	continuous lighting [On] increased consumption of the battery charge. Brightness: The brightness can be adjusted in 10% increments between [0%] and [100%].
Menu 9/11 Sensor Data	Overview of sensor data (pressure sensor module) [SN:] Serial number (ten-digit number)
	[Lower:] Start of measuring range (value and unit) [Upper:] Measuring range end (value and unit)
	[Date:] Date of manufacture (dd.mm.yyyy)
	The values are set by the factory and cannot be changed. Automatic detection after connecting the sensor to the display
Menu 10/11 Device Info	Overview of device information (display) [SN:] Serial number (eight-digit number)
201100 11110	[Cap:] Data logger capacity (occupied range 0-600798 / maximum acceptance 600798) [Firmware:] The installed firmware version is displayed.
	[Production:] Date of Manufacture (TT.MM.JJJJ)
	Note: The values are set by the factory and cannot be changed. The recorded value in the data logger can be reset.
	(Reset counter reading: menu point [Cap:] with "Edit" select → button "<<" or ">>" press. There appears the question "Reset?" → once more operate the button "<<" or ">>". It seems "Sure?" additional confirmation whether
	the value should be reset → repeated confirming with the button "<<" or ">>" reset the grasped measuring values.
Menu 11/11	Display announcement "Counter: 0/600798") Setting the service options
Service	Device restart: [No] or [Yes] Switching off and switching on the device is carried out automatically. Required before firmware upgrade.
Error	Presets: Reset [No] or [Yes] to factory defaults Display "No sensor": Display and pressure sensor modules are disconnected.
	Indication "Inappropriate sensor": Sensor is not suitable for the sampling rate 50 / s and the interval of 20 ms.
Firmware update	Download current firmware (https://www.bdsensors.cz), switch on the device, connect the display to the computer (see 5.2), start the firmware update tool. Device (display) restart (automatic detection), select update file with
	Select File, press Start Update button and execute update. NOTE - the update may not be interrupted!
Left button:	is a function button and can be configured in menu 5. Off, Min, Max, Light, Zero, Reset or Single function can
	be assigned to the button. The configured function is active in display mode. Hold the button for about 2 seconds to activate the preset function. In operating mode, move backwards in the menu system "<<" or
Right hutton	reduce the setting value. is a function key and can be configured in menu 5. Off, Min, Max, Light, Zero, Reset or Single functions can be
ragni bullon:	assigned to the key. Hold the button for about 2 seconds to activate the preset function. In operating mode, move

or to confirm the set values "Next". When pressing the button for approx. 4 seconds, the operating mode is exited.

Menu-button: pressing this "Menu" button will enter the operating mode; It also serves to select the individual menu items "Edit"

To configure the individual menu items, the desired menu item must be set with the help of the left key "<<" or the right key ">>".

To save a set value the menu key "Next" must be pressed. To exit the menu, press the menu button for approx. 4 seconds. The operating mode is also left automatically after approx. 1 min.

Changes are only effective after pressing the menu button "Next" and after leaving the menu item. When leaving the entire menu system, the set parameters are checked again in relation to each other and in relation to the characteristics of the device. When configuring the unit, the measuring range is converted into the new unit only after leaving the menu system.

forward in the menu system ">>" or increase the setting.

Depending on the pressure range, not all units may be used.

Then confirm this with the menu button "Edit". Menu item is highlighted and configuration can begin.

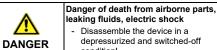
8. Maintenance

Always service the device in a depressurized and deenergized condition!

If necessary, clean the housing of the device using a moist cloth and a non-aggressive cleaning solution. The cleaning medium for the media wetted parts (pressure port / diaphragm / seal) may be gases or liquids which are compatible with the selected materials. Also observe the permissible temperature range according to the data sheet. Deposits or contamination may occur on the diaphragm / pressure port in case of certain media. Depending on the quality of the process, suitable maintenance intervals must be specified by the operator. As part of this, reglar checks must be carried out regarding corrosion, damage to the diaphragm and signal shift. If the diaphragm is calcified, it is recommended to send the device to BD SENSORS for decalcification.

NOTE - Wrong cleaning or improper touch may cause an irreparable damage on the diaphragm. Therefore, never use pointed objects or pressured air for cleaning the diaphragm

9. Removal from Service



condition! Danger of injury from aggressive



media or pollutants

- Depending on the measured medium, this may constitute a danger to the

 Wear suitable protective clothing e.g. gloves, goggles.

 $\ensuremath{\text{NOTE}}$ - After dismounting, mechanical connections must be fitted with protective caps.

operator.

10. Service/Repair

Information on service / repair:

- www.bdsensors.cz
- servis@bdsensors.cz
- Phone: +420 572 411 011

10.1 Recalibration

During the life-time of a transmitter, the value of offset and span may shift. As a consequence, a deviating signal value in reference to the nominal pressure range starting point or end point may be transmitted. If one of these two phenomena occurs after prolonged use, a recalibration is recommended to ensure furthermore high accuracy.

10.2 Return



Danger of injury from aggressive media or pollutants

- Depending on the measured medium, this may constitute a danger to the operator.
- Wear suitable protective clothing e.g. gloves, goggles.

Before every return of your device, whether for recalibration, decalcification, modifications or repair, it has to be cleaned carefully and packed shatter-proofed. You have to enclose a notice of return with detailed defect description when sending the device. If your device came in contact with harmful substances, a declaration of decontamination is additionally required.

Appropriate forms can be downloaded from our homepage. Download these by accessing www.bdsensors.cz or request them:

sale@bdsensors.cz | phone: +420 572 411 011

In case of doubt regarding the fluid used, devices without a declaration of decontamination will only be examined after receipt of an appropriate declaration!

11. Disposal



Danger of injury from aggressive media or pollutants

- Depending on the measured medium, this may constitute a danger to the
- operator.
 Wear suitable protective clothing

e.g. gloves, goggles.

The device must be disposed of according to the European Directive 2012/19/EU and 16/2022 coll. (waste electrical and electronic equipment). Waste equipment must not be disposed of in household



waste!

NOTE - Dispose of the device properly!

12. Warranty Terms

The warranty terms are subject to the legal warranty period of 24 months, valid from the date of delivery. If the device is used improperly, modified or damaged, we will rule out any warranty claim. A damaged diaphragm will not be accepted as a warranty case. Likewise, there shall be no entitlement to services or parts provided under warranty if the defects have arisen due to normal wear and tear.

13. EU Declaration of conformity / CE

The delivered device fulfils all legal requirements. The applied directives, harmonised standards and documents are listed in the EC declaration of conformity, which is available online at: http://www.bdsensors.cz.

Additionally, the operational safety is confirmed by the CE sign of the manufacturing label.