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 any time.

All persons entrusted with the mounting, installation, putting into operation, operation, maintenance, and disposing of the device must have read and understood the operating manual and be in particular knowledge of the safety information.

Complementary to this operating manual the current data sheet (DS) of the device must be observed.

1.1 Symbol used

<table>
<thead>
<tr>
<th>Type designation</th>
<th>Order code</th>
<th>Serial number</th>
</tr>
</thead>
</table>

### 3.2 Conditions for devices with 3- or 4-terminal pressure devices

- The device or its connecting piece must be installed in such a way that the surfaces are self-draining and no condensate or internal moisture can accumulate.
- The current system pressure is ≥ 10 bar: 60 Nm
- The current system pressure is > 100 bar: 200 Nm
- The device or its connecting piece must be installed in such a way that the surfaces are self-draining and no condensate or internal moisture can accumulate.

3.3 Conditions for devices with EHEDG certificate

- The device or its connecting piece must be installed in such a way that the surfaces are self-draining and no condensate or internal moisture can accumulate.

### 3.4 Conditions for oxygen applications

- The device or its connecting piece must be installed in such a way that the surfaces are self-draining and no condensate or internal moisture can accumulate.

### 3.5 Mounting steps for connections according to DIN 3862

- The device or its connecting piece must be installed in such a way that the surfaces are self-draining and no condensate or internal moisture can accumulate.

### 3.6 Mounting steps for G 1/4" cone connection

- The device or its connecting piece must be installed in such a way that the surfaces are self-draining and no condensate or internal moisture can accumulate.

### 3.7 Mounting steps for internal threads M36x1.5 and 9/16" UNF (for high-pressure devices)

- The device or its connecting piece must be installed in such a way that the surfaces are self-draining and no condensate or internal moisture can accumulate.

### 4.4 Connection and safety instructions

- The device or its connecting piece must be installed in such a way that the surfaces are self-draining and no condensate or internal moisture can accumulate.

### 4.5 Electrical connection

- The device or its connecting piece must be installed in such a way that the surfaces are self-draining and no condensate or internal moisture can accumulate.

### 4.6 Electrical installation

- The device or its connecting piece must be installed in such a way that the surfaces are self-draining and no condensate or internal moisture can accumulate.

### 4.7 Further information on the device

- The device or its connecting piece must be installed in such a way that the surfaces are self-draining and no condensate or internal moisture can accumulate.

### 4.8 Operating manual

- The device or its connecting piece must be installed in such a way that the surfaces are self-draining and no condensate or internal moisture can accumulate.
5.6 Menu list

- Button functions are well known (see "1.1 Control and display elements")

menu 1 - Access protection
  - Please activate set password
  - Please deactivate set password

menu 2 - Set end point
  - Set end point and point the device has been configured correctly before delivery, so a later setting of a 2-wire device is only necessary, if it is different displayed or not set (in %)
  - For devices with 3-wire output 4...20 mA and 0...20 mA this menu has a different meaning. The configuration of the zero point and one end point is not possible.
  - The displayed value remains unchanged (zero end point can be configured within the limits of the nominal pressure range, according to the manufacturer label), for more information see 3-4...
menu 3 - configuration
  - The function allows a constant display value although the measuring values may vary considerably; the time constants menu 4 - setting menu
  - The setting menu can also be used to load a stored configuration (via menu 39), set the desired number 1 up to 5

5.7 Structure of the menu system

3-wire system (current / voltage)

5.8 Protection system

5.9 Service / repair

5.10 Disposal

6. Operation

6.1 Control and display elements

6.2 Configuration

- The menu system is a closed system allowing you to scroll both forwards and backwards through the individual set points.
- Within defined limits; set "0238"; confirm with both buttons; "FS appeared; now the reference value can be inputted by using both buttons; the reference value is for

6.3 Password system

- Avoid to configuration by unauthorized persons, the possibility is given to configure a different password.

6.4 Configuration example of the analogue output

- For 4...20 mA / 3-wire adjustable

- The menu DP for the analogue output can be configured. In the following, the function of these menu shall be made clear by an example. Assuming you have a device with a nominal pressure range 0...400 bar by factory the following performance levels are possible:

7. Maintenance

7.1 Danger of death from airborne parts, leaking fluids, electric shock

- Always service the device in a de-energized condition.
- Wear suitable protective clothing e.g. gloves, goggles.

7.2 Danger of injury from aggressive fluids or pollutants

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

7.3 Declaration of decontamination

- Download these by accessing www.bdsensors.de.

8. Removal from service

9. Service / repair

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

10. Disposal

- Before every return of your device, whether for recalibration, decalcification, modifications or repair, it has to be cleaned carefully and packed sheltered. You have to enclose a notice of doubt regarding the fluid used, devices without a

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

- NOTE - Dispose of the device properly!