

# Operating Instructions



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## 1 General Information

This document contains necessary information for the proper installation and use of this device. In addition to this instruction, be sure to observe all statutory requirements, applicable standards, the additional technical specifications on the accompanying data sheet (see [www.labom.com](http://www.labom.com)) as well as the specifications indicated on the type plate.

### 1.1 General Safety Notes

The installation, set up, service or disassembly of this device must only be done by trained, qualified personnel using suitable equipment and authorized to do so.



#### **Warning**

Media can escape if unsuitable devices are used or if the installation is not correct.

Danger of severe injury or damage

- Ensure that the device is suitable for the process and undamaged.

### 1.2 Intended Use

The device is intended to measure temperature in technical processes as specified in the data sheet.

### 1.3 Conformity with EU Regulations

The CE-marking on the device certifies its compliance with the applicable EU Directives for placing products on the market within the European Union.

You find the complete EU Declaration of Conformity (document no. KE\_052) at [www.labom.com](http://www.labom.com).

## 2 Transportation and Storage

Store and transport the device only under clean and dry conditions preferably in the original packaging. Avoid exposure to shocks and excessive vibrations.

Permissible storage temperature: -40...80 °C

## 3 Installation and Commissioning

Ensure that the device is suitable for the intended application with respect to temperature range, pressure range, medium compatibility and process connection.

### 3.1 Mechanical Installation

Before starting operation, check the process connection carefully for leaks under pressure.

Use gaskets, if required, that are suitable for the process connection and resistant to the media.

The process connection determines the permissible process pressure. Operating the device beyond its nominal pressure limit, e.g. clamp-connections, requires specially designed and approved mounting elements.

### 3.2 Mount / Dismount Display

In order to dismount the display, turn off the device cover and pull out the display. The three small studs at the outer diameter of the display (all 120°) facilitate removal.

The display cable can be disconnected either at the display or at the clamp module. When reconnecting the cable, please take polarity (red lead) into account. Otherwise the cable will not fit into the plug.

When mounting the display, you can choose its orientation. Complete the process by firmly reattaching the cover.

### 3.3 Electrical Connection

Complete the mechanical installation before you connect the device electrically.

Set up all electrical connections while the voltage supply is switched off.

Output (2-wire)	4...20 mA (20...4 mA)
Permissible supply voltage	$U_V = 12...30 \text{ VDC}$
Permissible load	$R_B \leq (U_V - 12 \text{ V}) / 22 \text{ mA}$

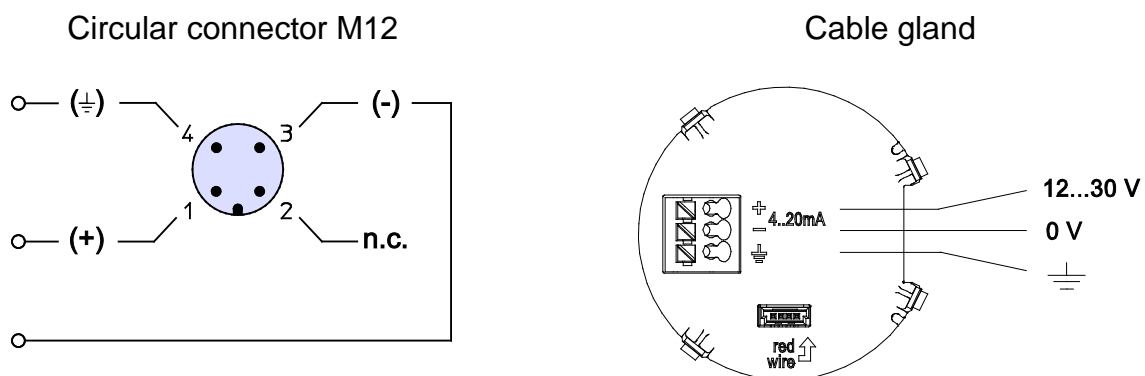


Figure 1: Options for the electrical connection

Pay attention to the following points regarding electrical connections via cable gland:

- The display can be dismounted as described in Chapter 3.2. Use a small screwdriver to press the spring of the terminal block completely downwards before inserting the cable. Otherwise, it is not possible to ensure a safe electrical connection.
- Do not forget to tighten the cable gland after the electrical connection is finalised.

### 3.4 Device orientation

The case can be turned in relation to the process connection as well as the display in relation to the case.

Turning the case in relation to the process connection ( $\pm 170^\circ$ ) allows to choose the position of the electrical connection. Turning the display in relation to the case allows to choose the viewing angle independently of the position of the electrical connection.

### 3.5 Adjustment of the Display Contrast

The display contrast can be adjusted.

Press and hold the ESC key and use the arrow keys to adapt the contrast.

The setting is saved and the contrast screen closes as soon as the ESC key is released.

## 4 Operation

During operation, take care that the device remains within its intended pressure and temperature ranges. No other monitoring is necessary.

Permissible media temperature: -50...200 °C

Permissible ambient temperature: -20...80 °C

### 4.1 Maintenance / Service

When properly installed in accordance with applicable specifications, this device is maintenance-free. However, we recommend an annual recalibration of the device.

In case of damage or defects, the customer can replace the following elements:

- Display module
- Cable glands (if applicable)

For defects to other components, repairs must be performed in the factory.

## 5 Disassembly

When measuring hot media, make sure that the device has cooled down prior to any dismantling or wear appropriate protective clothing to avoid burns.

Switch off the power supply to the device before disconnecting the electrical connections. Once this is done, the device may be mechanically removed.



#### Warning

Opening pressurized lines might cause severe injuries.

Danger of severe injuries or damage

- Relieve the process pressure before attempting to remove the device. Shut off the pressure supply for all feed lines to the device and relieve the pressure in them.



#### Warning

Hazardous deposits and residues might remain on opened process connections and removed devices.

Danger of injury

- After the device has been removed, seal off the measuring point and mark the open process connection accordingly. Consider a possible danger due to residues when handling the removed device.

The device can be configured via the display module as well as the HART protocol. The following pages describe operation and configuration of the device using the display module.

An overview of the menu structure can be found on the last page of this document.

### 6.1 Basics of the Operating Concept

The display module consists of a dot-matrix display with 80x128 pixels as well as a 4-button control panel.

The four buttons below the display allow an intuitive operation of the device. The general functionality of the buttons is identical in all operating modes.



Figure 2: Control elements

If you press and hold the up or down button, it will automatically be triggered multiple times. This allows to easily navigate through longer selection lists. If you press and hold the ESC button, you always return to the measured value display.

Button	Function
△ / ▽	Select function, increase/decrease value
OK	Confirm selected function or selected value
ESC	Cancel action
ESC long	Return to measured value display

Table 1: General button functions

The structure of the display is the same in every operating mode. The display area is divided into three zones:

- Header
- Icon indicating device status
- Data area

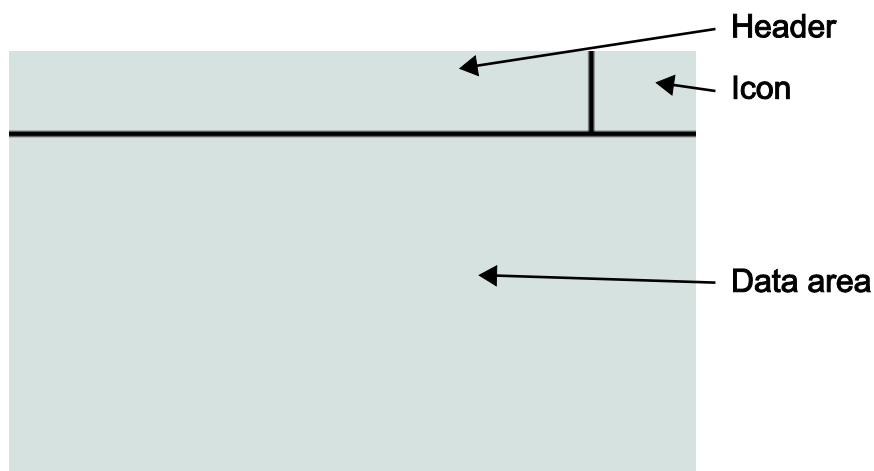


Figure 3: Display structure

The icon for the device status (see [6.2.3](#)) is displayed in each operating mode. The contents of the header and the data area depend on the operating mode:

Display of measured value

- Header: Icon description, if applicable. Otherwise "Value"
- Data area: Measured values and parameters according to the selected display mode (see [6.2.4](#))

Display of device data (see [6.2.1](#))

- Header: Title for the displayed device data
- Data area: Device data

Operating menu

- Header: Selected menu item
- Data area: Submenu or dialogue during setting procedure

## 6.2 Display Mode / Measured Value Display

After applying the supply voltage and completion of the initialisation, the device switches to the display mode. In the display, the currently measured value is shown.

If the measured value is larger than the displayable number due to setting a fixed decimal point or an inappropriate unit, the largest displayable number is shown flashing. In this case please select a different setting of the decimal point or a different unit.

In display mode you can review the device data, enter the menu or lock/unlock the menu.

Button	Function
△ / ▽	Scroll through the pages with device data
ESC	Return to measured value display
OK	Go to the operating menu
ESC+OK long	Activate / deactivate menu lock (see 6.3.2)

*Table 2: Button functions in display mode*







### 6.2.1 Quick Access to Device Data

You can access a number of device parameters directly from the measured value display using the △ / ▽-buttons. This allows a quick overview of the device configuration.

With the △-button you can display variable data (min/max values), with the ▽-button static information such as configuration data.

From any screen of the device data, you can enter the operating menu with OK and go back to the measured value display by pressing ESC.

The sequence of the screens with device data is as follows:

-  Min/Max values (measurement)
- ----- *Measured value display (starting point)* ---
-  Temperature measurement (sensor type)
-  Current output (characteristic curve, limits, measuring range)
-  HART data (address, tag, descriptor)
-  Device identification (device ID, order number, serial number)
-  Module information (hardware and software versions, serial numbers)

### 6.2.2 Locking the Menu

You can lock the menu with a key combination at the device. Press and hold the ESC-key and press then OK to activate the menu lock. Hold down both keys until the display confirms that the menu lock has been activated. You can still access the device data but the menu is now locked.

An active menu lock is indicated by the header text „Write protection“ in combination with the lock icon.

Use the same key combination to unlock the menu again.

### 6.2.3 Icons indicating device status

In the top right corner of the display, depending on the device status an NE107-conform icon is displayed. The following icons are defined:






	Error/failure	Critical error, alarm current is activated. The error description is indicated in the display. The device restarts after confirming the error.
	Warning	Temperature limit is exceeded.
	Limit reached	The output current reached the pre-set upper or lower current limit.
	Function control	The output current does not correspond to the measured value due to an active simulation.
	Write protection	The write protection of the device was activated via HART or with the key combination in the display.

Table 3: Icons for device state

The list of icons is sorted in descending priority. Only the icon with the highest priority is shown. The two most important icons for fault and/or warning are flashing when displayed.

## 6.2.4 Display layouts

You can configure the layout of the measured value display as well as the displayed information individually. There are four different layouts available:

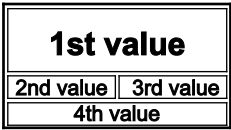

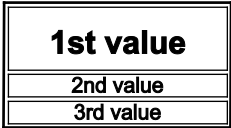

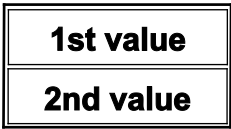

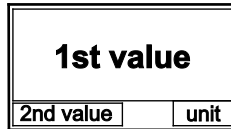
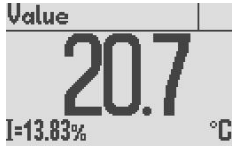
Designation	Layout	Description	Example
Four values		Under the main value, three additional values are shown. The 4th value can use the entire display width.	
Three values		Under the main value, two additional values are shown. Both of them can use the entire display width.	
Two values		Two values are shown in the same size, one under the other.	
Large display		The main value is shown at the maximum size (best readability from a distance). One additional value can also be shown.	

Table 4: Display layouts

You can define what information shall be shown in the layout's placeholders.

You can select the 1st value (main value) from the following data:

1. Temperature with the selected unit
2. Pressure in per cent of the measuring range
3. Pressure in milliamperere

For all further values, you can additionally choose from the following data:

- Bar graph
- Device ID (see [6.4.9.1](#))
- HART tag
- HART descriptor

When information (such as the device ID) cannot be displayed in a short layout placeholder, "###" appears on the screen. Then select another layout or assign the value to a longer layout placeholder.

You can configure the display mode in the menu "Display" submenu "Screen mode" (see [6.4.4.2](#)).



### 6.3 Menu Mode / Operating Menue

Press OK in the measured value display to go to the operating menue. Then the main menue appears in the display.

In the operating menue you can navigate in the menues by using the arrow buttons. The selected menue item is indicated by triangles on the left and right. The OK button selects the menue item or switches to the corresponding submenu. You can return to the higher-level menue by pressing ESC. From the main menue, pressing ESC returns to the measured value display.

From every position in the operating menue, you can return to the measured value display by pressing and holding the ESC button (for at least one second).

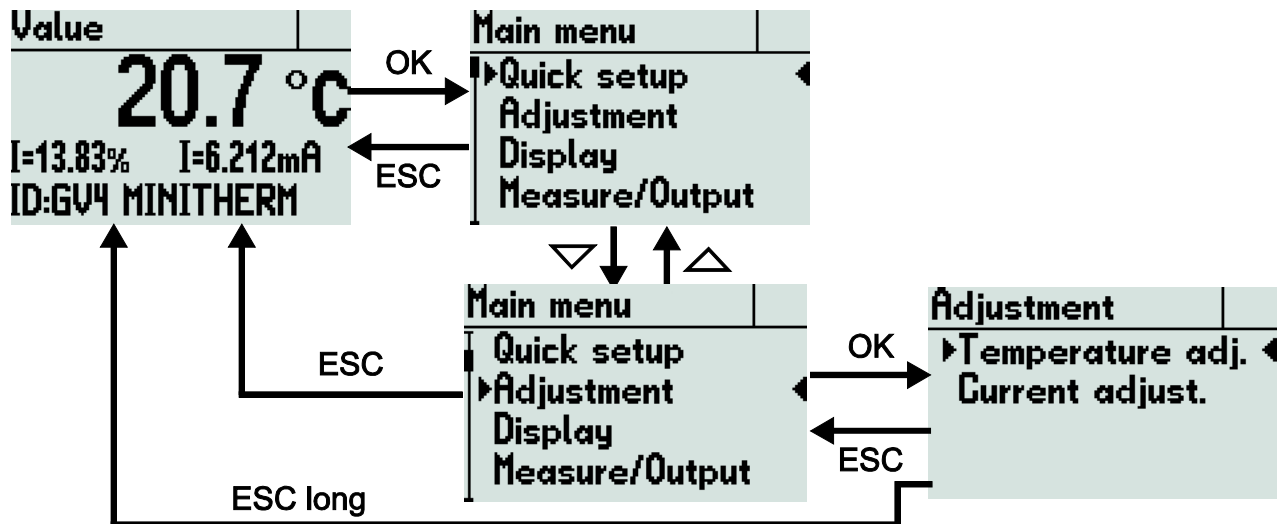


Figure 4: Navigating the operating menue

In long menues and selection lists, a scroll bar on the left side shows the position of the currently selected item.

Menue items that open a setting dialogue differ from submenues by three trailing points, e.g. "Lower range ..." (calling a setting dialogue) and "System" (calling a submenu).

If no button is pressed in menue mode for five minutes, the device automatically returns to the display mode without saving any values.

Button	Function
△	Scroll up in the menue, increase value/position in list
▽	Scroll down in the menue, decrease value/position in list
OK	Select menue, confirm value/list entry
ESC	Cancel the data entry or menue selection, return to the next higher menue
ESC long	Cancel menue mode, return to display mode

Table 5: Button functions in the operating menue

### 6.3.1 Displaying and entering parameters

When entering parameters, either numerical inputs or a selection lists with fixed options is available.

In general, the actual selection will be displayed first (view mode). Press OK to switch to edit mode to change the parameter. After this is done, the display will then switch back to view mode so that you can check the new setting.

#### 6.3.1.1 Selection of a value from a selection list

Up to four options are shown at the same time in one selection list. When the selection list is longer, a scroll bar on the left side of the display indicates the position of the selected item in the selection list.

When you press the ESC button, you cancel the entry and go back to view mode. The selected value is not saved.

With the OK button, the selected value is saved. Saving the value is confirmed with an information window and the new value is shown in view mode.

With ESC, you leave the view mode and return to the menu.

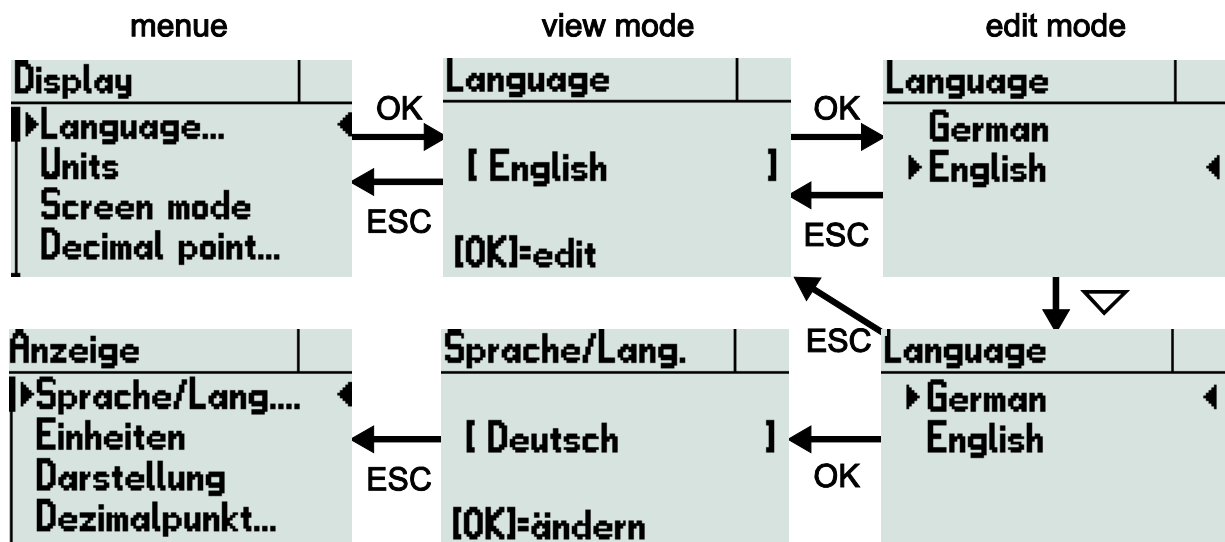


Figure 5: Procedure for value selection (e.g. changing language from english to german)

### 6.3.2 Setting a numeric value

When setting numeric values, the screen shows the following elements (from top to bottom):

- Designation of the parameter that can be set (in header)
- Help text (if applicable)
- Numeric value and unit
- Function of buttons (if applicable)

After selecting a menu item for numerical entry (e.g. damping), at first the value is displayed only. The numeric value itself is shown in square brackets and its unit behind it or in the lower right area. Unused leading digits are marked with bottom lines. You need to press OK again to enter the edit mode.

Numeric values are entered digit by digit. First, always the leftmost digit is selected (visible with a triangle above and below the number). By pressing OK, you go to the next digit.

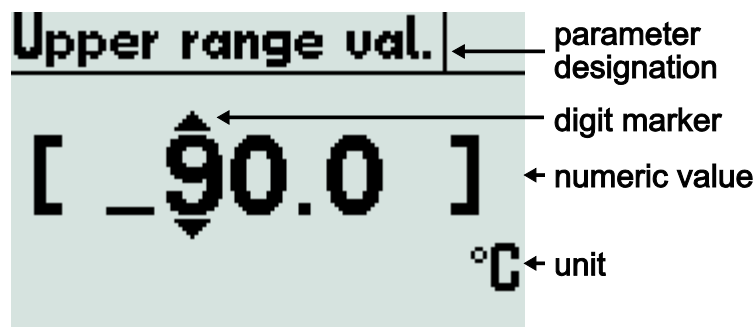


Figure 6: Elements when setting a numeric value

You change the selected digit by pressing the  $\triangle$  or  $\nabla$  button. The higher value digit is also increased or decreased when passing zero. For instance, you can easily go from 100 to 90 without having to edit two digits.

Lower value digits are not influenced, unless the parameter limit is reached. The value is then set to the parameter limit.

You can set negative numbers by decreasing the value below zero.

When you press the ESC button, you can cancel the entry at any time and return to the display of the set value. Any change of the value is not saved.

With the OK button you confirm the set digit value and jump to the next digit.

When you confirm the rightmost digit, the entire value is saved. You can save the new value from any digit by pressing and holding the OK button.

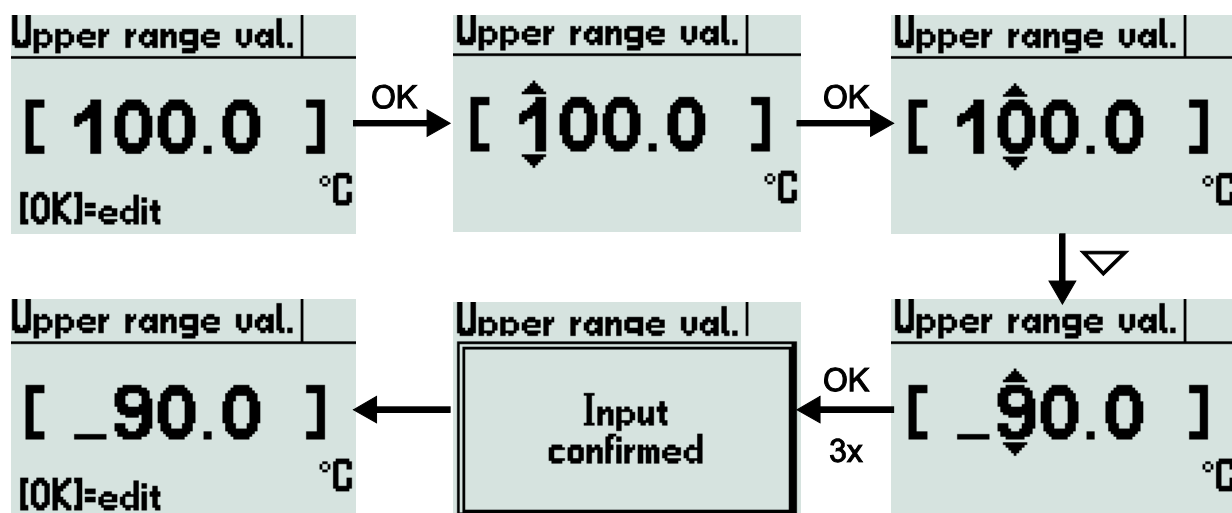


Figure 7: Procedure for setting a numeric value (e.g. from 1.0 to 0.9)

## 6.4 The Menue Tree

In the following, the display and adjustment options are described by their position in the menue tree. An overview of the menue tree can be found on the last page of this document.

### 6.4.1 Main menue

The main menue has the following entries:

Menue entry	Description
Quick setup	Selection of the most important settings
Adjustment	Adjustment functions for temperature measurement and current output
Display	Functions for configuring the display
Measurem./Output	Configuration of the temperature measurement and current output
Diagnosis	Diagnostic information such as min/max values
Simulation	Simulation of temperature and current for function check of the measurement chain
Communication	Information and settings regarding HART communication
System	Device data and function such as factory reset

*Tabelle 6: The main menue*

### 6.4.2 "Quick Setup" menue

In Quick Setup, basic configuration options are combined to make it possible to quickly configure key functions. All functions of the quick setup can also be found at another position in the menue tree.

The following functions are available in the Quick Setup menue:

Menue entry	Description
Language	Select menue language
Temperature unit	Select unit for temperature (see <a href="#">6.4.4.1</a> )
Lower range val.	Setting of the temperature value that should correspond to 4 mA (start of range) (see <a href="#">6.4.5.2</a> )
Upper range val.	Setting of the temperature value that should correspond to 20 mA (end of range) (see <a href="#">6.4.5.2</a> )
Device ID	Setting the device ID (see <a href="#">6.4.9.1</a> )

*Table 7: "Quick Setup" menue*

### 6.4.3 "Adjustment" menu

The following functions are available for the temperature adjustment:

Menu entry	Description
Lower adjust.	Offset correction with applied reference temperature
Upper adjust.	Span correction with applied reference temperature

Table 8: "Adjustment" menu

#### 6.4.3.1 Upper and lower adjustment

The lower adjustment results in an offset of the characteristic curve. It thus affects the measuring range.

The upper adjustment changes the slope of the characteristic curve by correcting the span of the measuring range.

Execute the lower adjustment prior to the upper adjustment for a correct full adjustment.

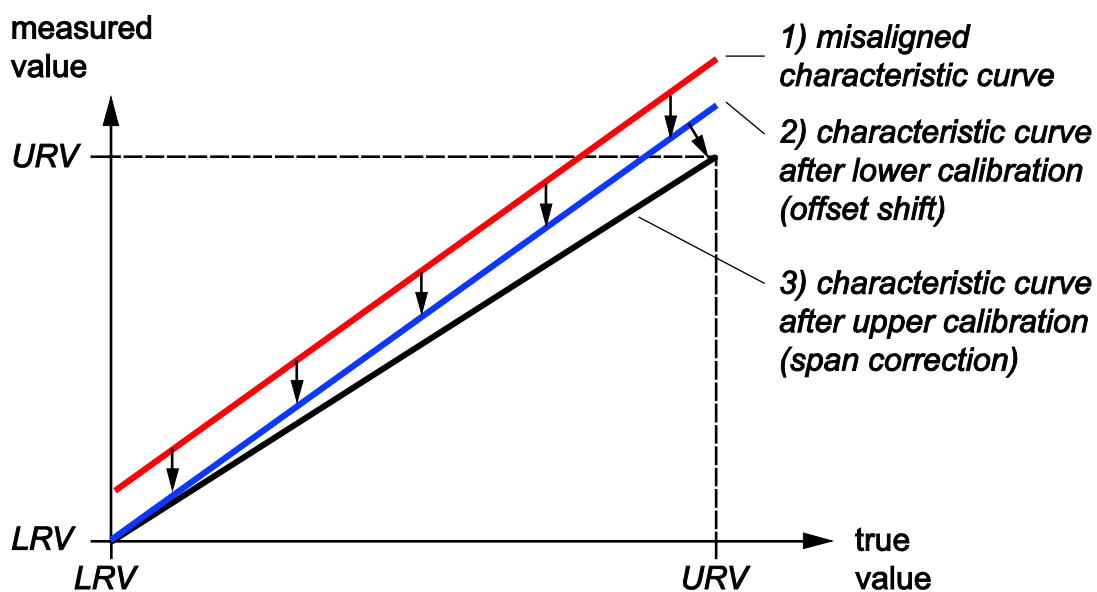


Figure 8: Effect of the upper and lower adjustment on the characteristic curve

You can perform the upper and lower adjustment at any reference temperature level. For instance, you can perform the lower adjustment of a -40...150 °C device at 0 °C. The reference temperature level for the upper offset can also be freely chosen. To ensure that the adjustment is as precise as possible, the upper and lower adjustment should be performed as close as possible to the lower range value and upper range value of the measurement ranges.

#### 6.4.3.2 Current adjustment

You can use the current adjustment, if the reading at the end of the measurement chain (re-converted current value) does not correspond to the measured value. With this function you can compensate deviations in the output stage as well as the downstream measurement chain.

Proceed as follows (example for 4 mA):

- Select function "Current adjustment" → "4mA"
- Use "OK" to activate constant current mode (4 mA). CAUTION! The output current value now no longer corresponds to the measured value! This is indicated by the icon "Function check" (see [6.2.3](#)).
- Read the displayed current value at the end of the measurement chain.
- Enter this current value (e.g. 3.996) at the device. The device now corrects the current output so that 4 mA are shown at the end of the measurement chain.

When leaving the function, the constant current mode is disabled and the current value corresponds again to the measured value.

#### 6.4.4 "Display" menu

In the "Display" menu, you find all the settings that affect the display on the screen.

Menu entry	Description
Language	Select menu language
Units	Setting units for the different measured and displayed values
Screen mode	Configuration of the screen layout and content (see <a href="#">6.2.4</a> )
Decimal point	Select setting of decimal places of the 1st value by specifying the decimal point
Backlight	Switch backlight on/off

Table 9: "Display" menu

##### 6.4.4.1 Submenu "Units"

You can select the units that are used on the display. These settings do not affect the internal calculations of the device or HART communication.

##### Temperature unit

The unit in which the temperature is to be shown can be selected from the following list:

Unit	Description
°C	Degree Celsius
°F	Degree Fahrenheit ( $T_{\text{Fahrenheit}} = T_{\text{Celsius}} * 1,8 + 32$ )
°R	Degree Rankine ( $T_{\text{Rankine}} = T_{\text{Kelvin}} * 1,8$ )
K	Kelvin ( $T_{\text{Kelvin}} = T_{\text{Celsius}} + 273,15$ )

Table 10: Possible units for temperature

#### 6.4.4.2 Submenue "Screen mode"

In the "Screen mode" submenue, you configure the representation of the measured values and additional information on the display.

With the menue item "Screen layout" you configure the information that is displayed and its layout. Up to four values can be displayed at the same time. In the additional menue entries "1st value" to "4th value" you define the contents of the placeholders in the layout.

The various layouts as well as the possible content of the values are described in Chapter [6.2.4](#).

#### 6.4.5 Menue "Measurement/Output"

Configure the measured value as well as the current output in the "Measurement/output" menue.

Menue entry	Description
Output function	Setting the output function (linear, inverse)
Lower range val.	Setting the temperature value that shall correspond to 4 mA (start of range)
Upper range val.	Setting the temperature value that shall correspond to 20 mA (end of range)
Alarm current	Select the alarm current: High (>21 mA) or low (<3.6 mA)
Minimum current	Limit of the lower output current (3.8...4.0 mA)
Maximum current	Limit of the upper output current (20...21 mA)

Table 11: "Measurement/Output" menue

Independent from the setting of the minimum and maximum current limit, the set measuring range always corresponds to a current range of 4...20 mA.

##### 6.4.5.1 Output function

You can set the output function proportionally rising to the measured value (selection "linear") or proportionally falling (selection "inverse").

##### 6.4.5.2 Setting the measurement range

You can freely set the lower and upper range value within the nominal range of the device. Please note that when the turndown is increased, the measurement error also increases. If you use a very small range you must therefore accept a significant measurement error. We recommended a maximum turndown of 10:1.

The lower range value must be below the upper range value. For an inverse characteristic curve, select the output function setting "inverse".

##### 6.4.5.3 Minimum and maximum current

In the standard setting, the current output is limited at 3.8 and 20.5 mA, meaning a further drop or rise in the measured variable does not change the current. You can freely select these current limits for the lower limit between 3.8 and 4 mA and for the upper limit between 20 and 21 mA.

### 6.4.6 Menue "Diagnosis"

In this menue you can view and configure various diagnostic information. The following diagnostic functions are available:

Menue entry	Description
Operating hours	Display of operating hour counter
Min/Max values	Displaying and resetting the min/max values
Last error	Display and reset of the last critical error

Table 12: "Diagnosis" menue

#### 6.4.6.1 Min/Max values

The min/max values save the maximum and minimum values until they are reset by the user. The menue item that shows the min/max value can also be used to reset it. Some of the min/max values are also directly accessible from the measured value display in the device data (see [6.2.1](#)).

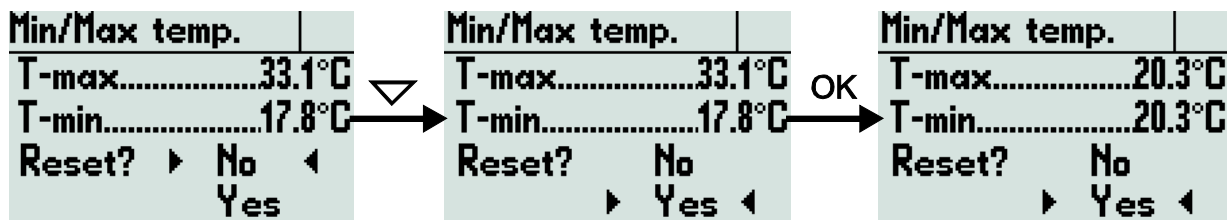


Figure 9: Display and resetting of the Min/Max values

### 6.4.7 Menue "Simulation"

In the "Simulation" menue, you can simulate the temperature as well as the current to test the subsequent measuring chain.

Menue entry	Description
Current sim.	Setting a fixed current value
Temperature sim.	Setting a fixed temperature value

Table 13: "Simulation" menue



### 6.4.8 Menue "Communication"

In the "Communication" menue the settings for the HART communication are summarised.

Menue entry	Description
HART address	Setting the HART address for device identification in multi-drop mode
Current mode	Setting the current mode (proportional/constant)
HART data	Display of HART information (HART-Tag, HART-Descriptor etc.)
Send-preambles	Setting of the number of send-preambles for HART communication

Table 14: "Communication" menue

#### 6.4.8.1 HART address

This address corresponds with the short address which is used for the HART-Communication. It can be set within a range of 0 to 63. Please note, that setting the short address between 1 and 63 will not automatically activate the constant current mode. This must be done under the menue "Current mode" (see [6.4.8.2](#)).

#### 6.4.8.2 Current mode

The current mode determines whether the output current of the device is set to respond proportionally to the measured value (selection "proportional") or whether it should remain constant at 4 mA (selection "constant"). When the current mode "constant" is in use, the measurement value can only be read using HART-commands (e.g. for HART-multidrop-operation).

### 6.4.9 Menue "System"

In the "System" menue, device-relevant functions are summarised.

Menue entry	Description
Device ID	Setting the device ID (e.g. to display a free-text in the display)
Device data	Display of device data, such as from measured value display (see <a href="#">6.2.1</a> )
Factory reset	Reset to factory settings
Device reset	Restarting the device (such as after a power outage)

Table 15: "System" menue

#### 6.4.9.1 Device ID

Using the device ID, you can show a custom text in the display if you configure the display mode accordingly (see [6.2.4](#)). For instance, you can show the tag number continuously in the display.

The device ID can be up to 16 characters long and consist of numbers, empty spaces, capital letters and special characters.

For the selection, the characters are arranged in the order shown below. From the end of the list (special character "@"), you are automatically guided back to the start (number "0").

Character set:

0123456789 ABCDEFGHIJKLMNOPQRSTUVWXYZ[\]^\_!"#\$%&'()\*+,-./:;<=>?@

#### 6.4.9.2 Factory reset

When carrying out a factory reset, all parameters are set to the state at the time of delivery. This also includes the temperature and current adjustment. Exceptions are the following operational parameters: "Min/max values", "HART change counter" and "operation hours".



## 6.4.10 Overview with menu tree and device functions

<b>Quick Setup</b>	
— Language...	Select menu language
— Temperature unit...	Select unit for measured temperature
— Lower range val....	Setting of the temperature value that should correspond to 4 mA (start of range)
— Upper range val....	Setting of the temperature value that should correspond to 20 mA (end of range)
— Device ID...	Setting the device ID
<b>Adjustment</b>	
— Temp. adjustment	Adjustment of the temperature measurement
— Lower adjust....	Offset correction with applied reference temperature
— Upper adjust....	Span correction with applied reference temperature
— Current adjust.	Adjustment of the current output
— Adjust 4 mA...	Adjustment the output current on 4 mA at the end of measurement chain
— Adjust 20 mA...	Adjustment the output current on 20 mA at the end of measurement chain
<b>Display</b>	
— Language...	Select menu language
— Units	Select units for measured values
— Temperature unit	Select unit for temperature
— Screen mode	Configuration of the screen layout and content
— Screen layout...	Define screen structure and layout
— 1st value...	Content for 1st value in the selected layout
— ...	Content for further values (up to four)
— Decimal point...	Select setting of the decimal places of the 1st value by specifying the decimal point
— Backlight...	Switch backlight on/off
<b>Measurem./Output</b>	
— Output function...	Setting the output function (linear, inverse)
— Lower range val....	Setting of the temperature value that should correspond to 4 mA (start of range)
— Upper range val....	Setting of the temperature value that should correspond to 20 mA (end of range)
— Alarm current...	Selection of the alarm current: High (>21 mA) or low (<3.6 mA)
— Minimum current...	Lower limit of the output current (3.8...4.0 mA)
— Maximum current...	Upper limit of the output current (20...21 mA)
<b>Diagnosis</b>	
— Operating hours...	Display of operating hour counter
— Min/Max values	Display and reset of min/max-values
— Min/Max temp.	Display and reset the different min/max-values
— Last error...	Display and reset of the last critical error
<b>Simulation</b>	
— Current sim....	Setting a fixed current value
— Temperature sim....	Setting a fixed temperature value
<b>Communication</b>	
— HART address...	Setting the HART address for device identification in multi-drop mode
— Current mode...	Setting the current mode (proportional/constant)
— HART data...	Display of HART information (HART tag, HART descriptor, etc.)
— Send-preambles...	Setting of the number of send preambles for HART communication
<b>System</b>	
— Device ID...	Setting the device ID (e.g. to display a free-text in the display)
— Device data...	Display of device data (same as from measured value display)
— Factory reset...	Reset to factory settings
— Device reset...	Restarting the device (such as after a power outage)