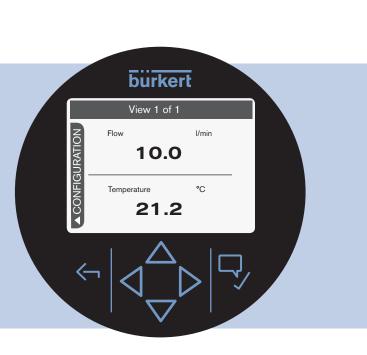




Type ME31

Display-Modul

Using the display



Operating Instructions - Software

We reserve the right to make technical changes without notice. Technische Änderungen vorbehalten. Sous réserve de modifications techniques.

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Operating Instructions 1809/03_EU-EN_00810437 / Original DE



Operation of the display type ME31

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1 OPERATING INSTRUCTIONS

The operating instructions describe basic operation of the displays for Bürkert devices. Keep these instructions in a location which is easily accessible to every user and make these instructions available to every new owner.



WARNING!

Safety information.

Safety instructions and information for using the communication-capable devices or products may be found in the corresponding operating instructions.

Failure to observe these instructions may result in hazardous situations.

▶ The operating instructions must be read and understood.

1.1 Symbols



DANGER!

Warns of an immediate danger.

▶ Failure to observe the warning will result in fatal or serious injuries.



WARNING!

Warns of a potentially dangerous situation.

► Failure to observe the warning may result in serious injuries or death.



CAUTION!

Warns of a possible danger.

► Failure to observe this warning may result in a moderate or minor injury.

NOTE!

Warns of damage to property.

▶ Failure to observe the warning may result in damage to the device or other equipment.



indicates important additional information, tips and recommendations.



refers to information in these operating instructions or in other documentation.



- designates instructions for risk prevention.
- → designates a procedure which you must carry out.
- indicates a result.

1.2 Definitions of terms

The term "device" or "product" used in these instructions refers to communication-capable devices or products.

2 AUTHORIZED USE

Non-authorized use of the display module may be dangerous to people, nearby equipment, and the environment.

Operation of the display is designed for the communication of Bürkert devices.

- ▶ Use according to the authorized data, operating conditions, and conditions of use specified in the contract documents and operating instructions of the corresponding devices / products.
- ▶ Use the display module only in conjunction with third-party devices and components recommended and authorized by Bürkert.
- ► Correct installation and careful use and maintenance are essential for reliable and faultless operation.
- ▶ Use the display module for its intended purpose only.



3 GENERAL INFORMATION

3.1 Contact address

Germany

Bürkert Fluid Control Systems Sales Center Christian-Bürkert-Str. 13-17 D-74653 Ingelfingen Germany

Tel. + 49 (0) 7940 - 10 91 111 Fax + 49 (0) 7940 - 10 91 448 Email: info@de.buerkert.com

International

You can find the contact addresses on the Internet at:

www.burkert.com

3.2 Information on the Internet

The operating instructions and data sheets for device types can be found on the Internet at:

www.burkert.com

4 PRODUCT DESCRIPTION

4.1 Description

The display module makes the setting and monitoring of application-specific parameters a simple operation.

Features:

• Clear, straightforward user interface for displaying and changing device or product parameters.



5 USER INTERFACE

The user interface consists of a display and touch-sensitive buttons.

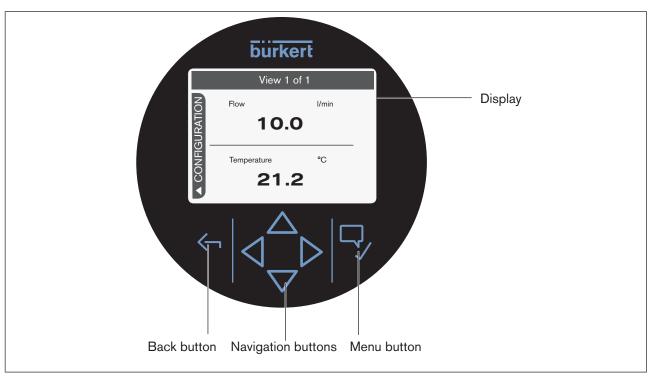


Figure 1: Overview

Button		Description
←	Back button	Press briefly: Back If the user makes changes but hasn't saved these, then a prompt is displayed asking if the changes should be saved. Press and hold: Return to view 1
	Navigation buttons	 Make selections and settings in Menus. Switch views Only available in views, the configuration view and detailed views. Save selection (e.g. for option fields). Select Configuration area or Menu.
7	Menu button	Press briefly: Confirm selection Save selection Next (in the input assistant) Press and hold: Open context menu

Table 1: Description of user interface



5.1 Display areas

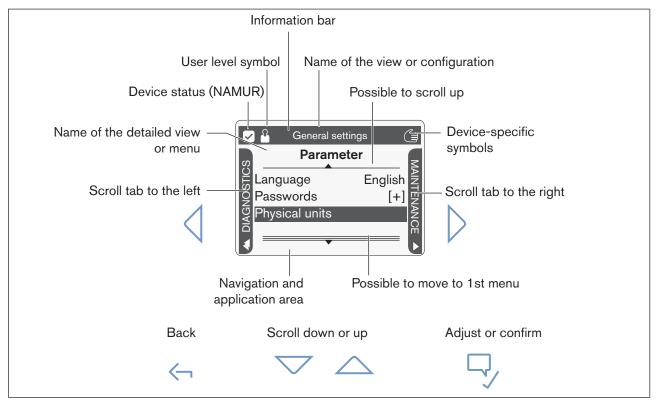


Figure 2: Display overview (example)

Range	Description	
Information bar	Name of the view or configuration area	
	Show device status (NAMUR)	
	Show user level	
	Show device-specific symbols	
Designation	Name of the detailed view or menu	
Move right or left by a tab	Switch between views	
Navigation and application	Show process values or graphs (trends) in views.	
area	Select the configuration area or menus according to the view.	
	Show values or settings in views.	
	Select, enter values or launch input assistants or functions in the menus.	

Table 2: Description of the display areas

A detailed description can be found in the corresponding chapter of these instructions.



5.2 Operating structure

5.2.1 Overview

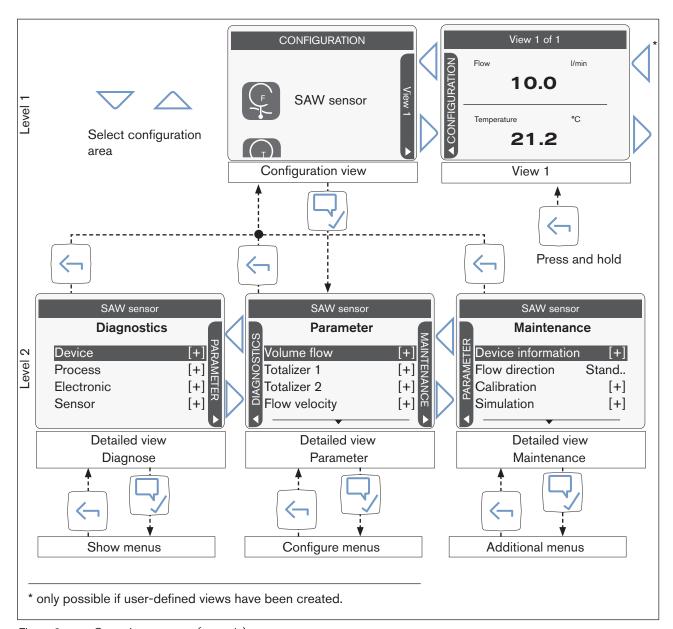


Figure 3: Operating structure (example)

The operating structure consists of 2 levels with increasing level of detail.

In level 1, the user can switch between the individual views and the configuration view using the navigation buttons \triangleleft \triangleright . View 1 is predefined and the user can add additional views.

A maximum of 3 views are available for each configuration area. They show content for the selected configuration area, sorted according to parameter, maintenance and diagnostics (level 2).

The settings and functions menus are shown in the detailed views.

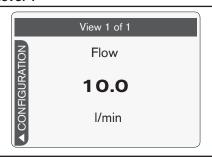


5.2.2 Description of views



Load screen

Level 1

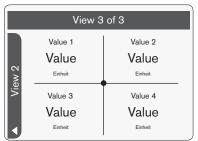


View 1

View which appears:

- after system start
- after pressing and holding the button

View for values or graphs (trend).



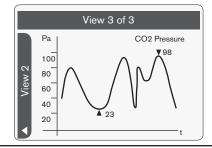
View x of x: User-defined view for values or for graphs (trend)

User-customizable view.

Possible elements:

- Process values
- Graphs (trends)
- Device-dependent widgets

The user can create up to 4 user-defined views for values or graphs.

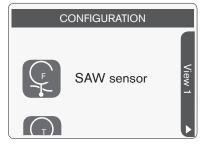


Configuration view

The available configuration areas are displayed and can be selected in the configuration view.

Navigating in the configuration view:

- → Select the configuration area with the buttons.
- → Switch to the detailed view 'Parameters' with the button.





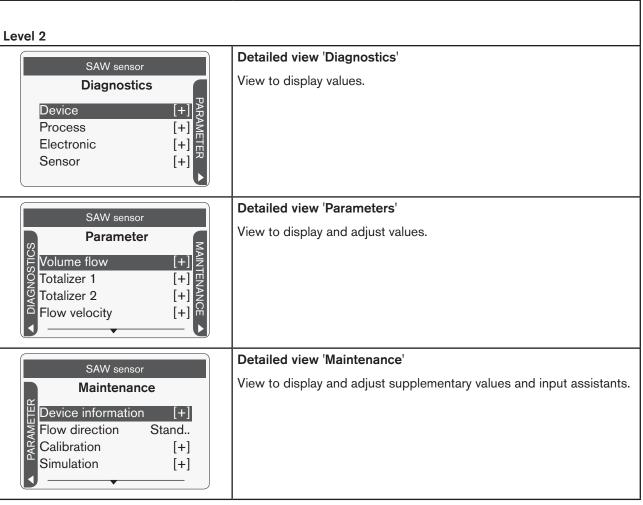


Table 3: Description of views

The content of the detailed views depends on the configuration area selected in the configuration view.

The diagnostics and maintenance views aren't shown if they don't have any content.

Navigating in the detailed views:

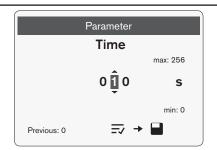
- \rightarrow Switch between detailed views with the \circlearrowleft buttons.
- \rightarrow Select Menu with the $\stackrel{\frown}{\nabla}$ buttons.
- → Open Menu with the button.



Menus to enter or select



Menu to enter values or text with the keypad



Menu to enter values with single digits

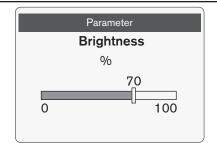
The current setting and the limits within which the value can be adjusted are shown.



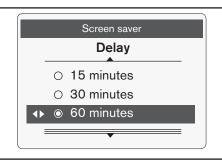
Menu to set IPv4 address with single digits

The current setting is displayed in 4 blocks.

Numbers from 0 to 255 can be set in each block.



Menu to enter values with sliders



Menu to enter values with option list

Only one option can be selected from the list.



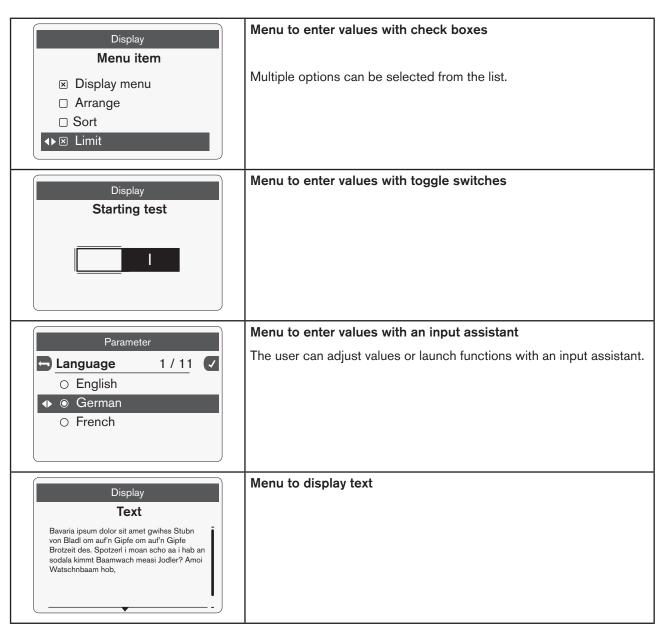


Table 4: Menus to enter or select



Navigating in the menus to enter or select:

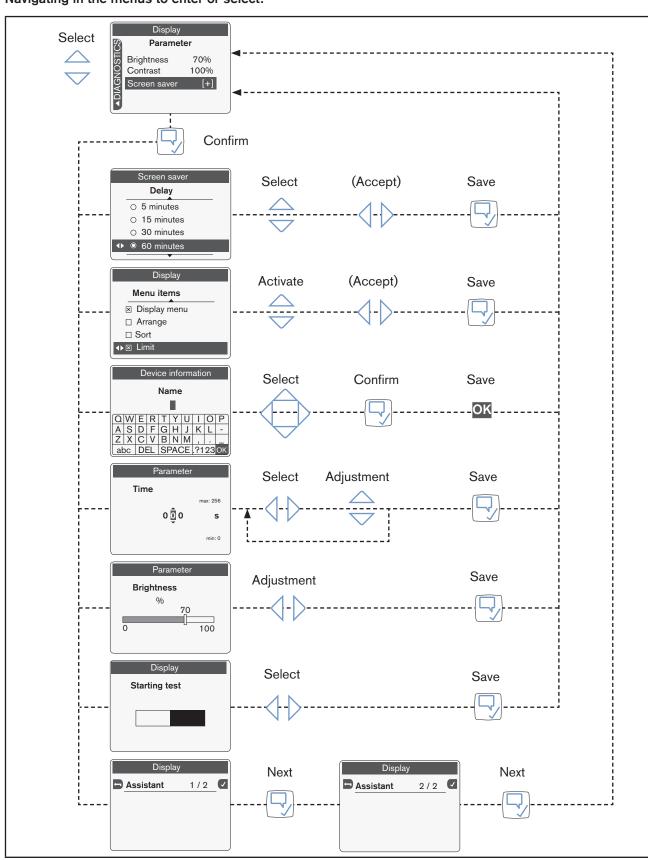


Figure 4: Navigating in the views to enter or select (examples)



The user can also save settings using the context menu:

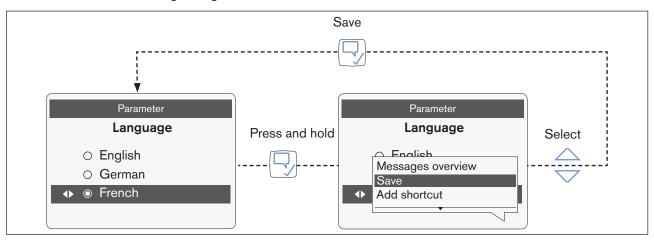


Figure 5: Save with context menu

Save with context menu:

Press and hold Save : Open the context menu ---- Save ---- Save

If the user makes changes but leaves the menu without saving them, then a prompt is displayed asking if the changes should be saved.



Figure 6: Request



6 CONTENT OF AND USING THE VIEWS

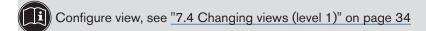
6.1 Views (level 1)

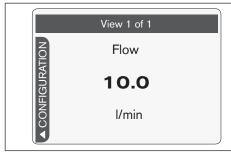
The user can select and modify different layouts for the views: Values or graphs (trends).

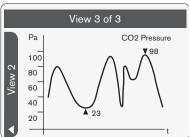
- View 1 is the startup screen when the device is turned on.
- The user can create up to 4 user-defined views.
- You can switch to view 1 by pressing and holding the button for approx. 1 second.

Available displays in the views.

- View for values to display process values
- View for graphs to display process values as graphs (trends)
- View with device-specific values







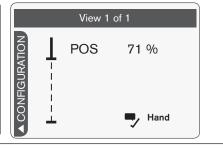


Figure 7: View (example)

Possible actions:

- Switch to view 1, the configuration view or user-defined views.
- Select or change the layout (1 to 4 values or 1 to 2 graphs).
- Add or remove view.
- · Change the view title.
- Change the user level.



6.2 Configuration view (level 1)

The configuration view shows the available configuration areas.

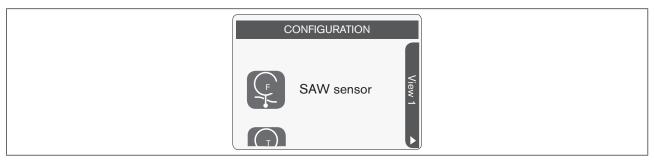


Figure 8: Configuration view (example)

Possible actions:

- Select configuration area.
- Switch to the detailed view 'Parameters' of the selected configuration area.
- Switch to view 1.
- Change the user level.
- Show the message overview.

The available configurations depend on the connected device or product.

burkert

The following configurations are available for all devices or products:

Symbol		Description
	Display	Settings for the display
		Brightness
		Contrast
		Screen saver
		Settings for (dependent on the user level):
	General settings	Set language
		Date and time
		Status display via LED illuminated ring
		büS settings
لين		Alarm limits for voltage and temperature
3		Quick start
		Display of device information, software information and diagnostic values
		Activate password protection and change passwords
		Activate diagnostic functions
		Configure units
		Reset or restart the device

Table 5: Configurations



6.3 Detailed views (level 2)

The detailed views display information and settings of the selected **Configuration area** (configuration view).

The detailed views contain Menus for operation and display.

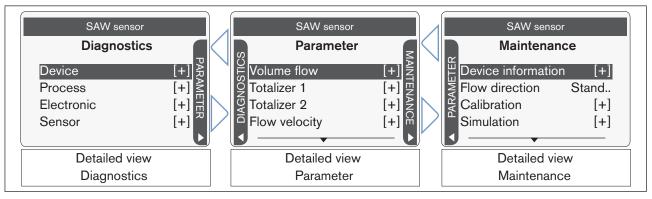


Figure 9: Detailed views (example)



The diagnostics and maintenance views aren't shown if they don't have any content.

Possible actions:

- Select menu.
- Switch between the detailed views.
- Switch back to the configuration view.
- Switch to view 1.
- Change the user level.

Description of the possible menus:

Symbol	Description
Range [+]	Sub-menu exists.
Name Device 1	Setting menu or display menu exists.
Name Device 1 🙃	Setting menu or display menu is read-only for the current user level.

Table 6: Menu (example)



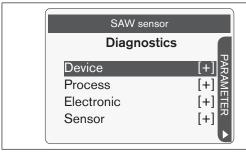
A detailed description of the menus and the required settings can be found in the respective operating instructions for the devices or products.



6.3.1 Diagnostics

The detailed view 'Diagnostics' displays information, settings or values for the selected configuration area, e.g. bus information, device information or status information.

The user can't change any settings here.



Possible elements or actions:

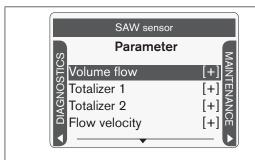
- Display of information.
- Switch to the detailed view 'Parameters'.
- Switch back to the configuration view.
- Switch to view 1.

Figure 10: Detailed view 'Diagnostics (example)'

6.3.2 Parameter

The detailed view 'Parameters' displays settings for the selected configuration area.

The user can change settings here in the Menus.



Possible elements or actions:

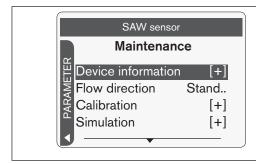
- Display of value settings.
- Adjust values (via setting menu or selection menu).
- Switch to the 'Parameters' or 'Maintenance' detailed views.
- Switch back to the configuration view.
- Switch to view 1.

Figure 11: Detailed view 'Parameters (example)'

6.3.3 Maintenance

The detailed view 'Maintenance' displays additional settings for the selected configuration area.

The user can modify the settings or execute the functions with menus and input assistants.



Possible actions:

- Adjust values (with the setting menu or selection menu).
- Execute functions.
- Switch to the detailed view 'Parameters'.
- Switch back to the configuration view.
- Switch to view 1.

Figure 12: Detailed view 'Maintenance (example)'



7 CONFIGURING AND OPERATING

The user can configure settings for the device or product in the detailed views of the selected configuration area. The user can use the context menu to configure the settings and views in level 1.

7.1 Switch to the detailed views

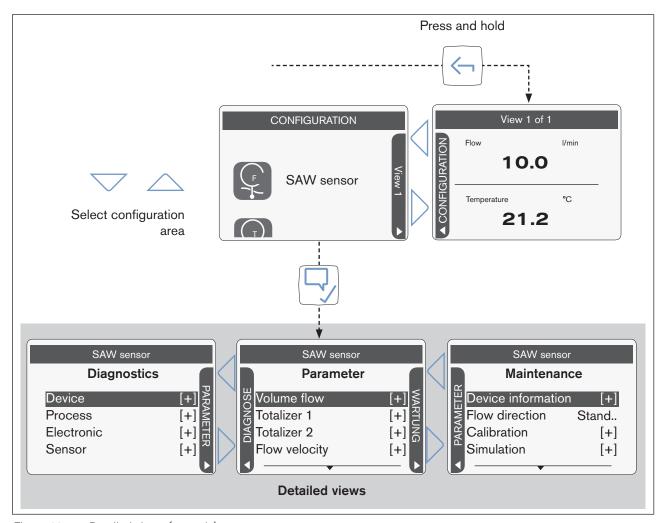


Figure 13: Detailed views (example)

Switch to the detailed view 'Parameters':

Press and hold switch to view 1 ---- switch to the configuration view ---- select the configuration area ----

Now the display shows the detailed view 'Parameters' for the selected configuration area. The user can change settings here.



7.2 Display settings

The user can configure the display in the following menus:

Brightness
 Brightness of the backlighting

Contrast
 Contrast of the display

Delay until the screen saver is activated
brightness of the backlighting when the screen saver is on
Unlock sequence of the screensaver

7.2.1 Switching to the detailed view 'Parameters' for display settings

Switching to the detailed view 'Parameters' for display settings:

Press and hold switch to view 1 ----→ switch to configuration view Confirm selection.

Now the display shows the detailed view 'Parameters' for the display settings.

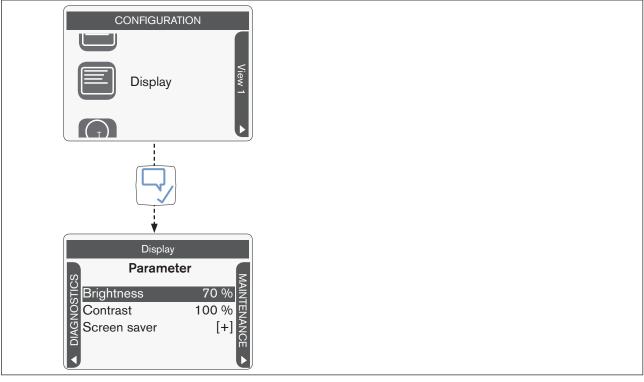


Figure 14: Display settings (example)



7.2.2 Adjusting the brightness of the backlighting

Adjusting the brightness of the backlighting:

→ Switching to the detailed view 'Parameters' for display settings (see "7.2.1").



The brightness of the backlighting is adjusted.

Reduction of the backlighting brightness if the device temperature exceeds +60 °C:

If the internal device temperature is greater than approx. +60 °C, then the backlighting brightness is reduced to 50 % and turned off 5 minutes after the last user input. The backlighting is turned off above an internal temperature of approx. +80 °C (0 %). User input turns the backlighting on for 30 seconds with a brightness of 50 %.

7.2.3 Contrast setting

→ Switching to the detailed view 'Parameters' for display settings (see <u>"7.2.1"</u>).

Adjust the display contrast:

The display contrast is adjusted.

7.2.4 Screen saver settings

→ Switching to the detailed view 'Parameters' for display settings (see "7.2.1").

Adjust the delay after which the screen saver is turned on:

The delay is adjusted.

Adjusting the brightness of the backlighting while the screen saver is active:



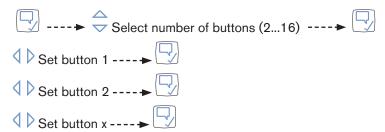
The brightness of the backlighting while the screen saver is active is adjusted.



Adjust the screen saver unlock sequence:



Launch the input assistant:



The screen saver unlock sequence is adjusted.

7.2.5 Deactivating the screen saver and unlocking the display

Operation of the display is protected by a screen saver.

Deactivating the screen saver and unlocking the display:

- \rightarrow Press any button.
- The backlighting is switched on for 20 s.
- → Press any button and follow the instructions on the display.

 (Standard setting: Press the buttons in the following order: , △, △, △)
- The screen saver is deactivated and the display unlocked.



If the user presses an incorrect button, the input process starts again.



7.3 General settings

The user can configure values in the following menus (depending on the user level):

Menu	Description	User level
 Change language 	Select the display language	Standard
• büS	Name and description for büS communication	Advanced user
	Name, description and values for büS communication	Installer
Physical units	Units	Advanced user
Date and time	Current date and current time	Installer
■ Status LED	Status display via LED illuminated ring	Installer
Alarm limits	Voltage and temperature limit	Installer
Quick start	Input wizard for the user for initial settings.	Installer
	For example, in the configuration display: language, times, and units.	
Passwords	Activating or deactivating password protection	Installer
	Change passwords	
Diagnostics	Activating or deactivating diagnostic functions	Installateur
Reset device	Reset device or product to factory default settings	Installer
 Device information 	Display of device information, software information and diagnostic values	Reading rights only



7.3.1 Switching to the detailed view 'Parameters' for general settings

Switching to the detailed view 'Parameters' for general settings:

Press and hold : switch to view 1 ---- switch to configuration view General settings ---- Confirm selection.

Now the display shows the detailed view 'Parameters' for the general settings.

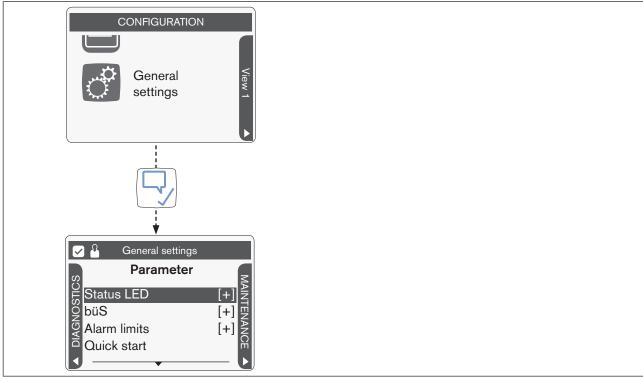
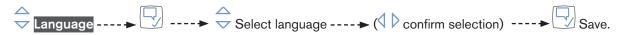


Figure 15: General settings (example)

7.3.2 Set language

→ Switch to the detailed view 'Parameters' for **General settings** (see "7.3.1").

Setting the language:



The language is adjusted.



7.3.3 büS data settings

The user can configure values for the büS connection in the büS menu.

→ Switch to the detailed view 'Parameters' for **General settings** (see "7.3.1").



The user can configure the following values in the büS menu (user level: Advanced user):

- Displayed name
- Location
- Description

Adjust using the on-screen keypad.

The user can configure the following values in the büS menu (user level: Installer):

Advanced [+]

Unique device name
 Identifier of the device or product in the bus system

Default setting: serial number and identification number

Adjust using the on-screen keypad Note: user should not change

Baud rate Transfer speed

50 kbit/s, 250 kbit/s, 500 kbit/s, 1 Mbit/s

Default setting: 500 kbit/s Select from option list

büS address Min: 0, max: 127

Adjust with numbers

Bus mode büS, CANopen

Default setting: büS Select from option list

Depending on the specific device:

Termination resistor
 Off or On

Default setting: Off

Select using toggle switch



7.3.4 Configure units

Required user level: Advanced user

The user can configure the units in the Physical units menu.

Note:

- The units which are configured here don't apply for the views in level 1.
- Some units cannot be changed, depending on the specific device.
- → Switch to the detailed view 'Parameters' for **General settings** (see "7.3.1").

Configuring the units:

The user can perform these steps for the available units.

The units are adjusted.

7.3.5 Setting the date and time

Required user level: Installer

→ Switch to the detailed view 'Parameters' for **General settings** (see "7.3.1").

Setting the date and time:

Launch the input assistant: The previous settings are displayed.

The date and time are adjusted.



7.3.6 Turning the status display via the LED illuminated ring on or off

Required user level: Installer

The user can select or deactivate the status display mode of the LED illuminated ring in the Status LED menu:

Status display mode	Description
NAMUR mode	Device status is displayed:
	Color based on NAMUR
	Light interval: Status display, dependent on the respective device or product
Fixed color	LED illuminated ring lights up in the selected color (white, red, orange, yellow, green, turquoise, blue or pink)
LED off	LED illuminated ring is not lit

Table 7: Status display via LED illuminated ring

→ Switch to the detailed view 'Parameters' for **General settings** (see "7.3.1").

Configuring the status display:



The status display is adjusted.

Further status display modes may be available on specific devices or products and are described in the corresponding operating instructions.

^{*)} On Fixed color status display, select the color as well.



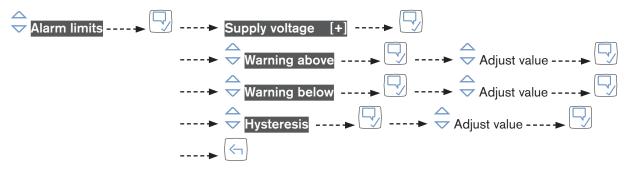
7.3.7 Adjusting the alarm limits for the supply voltage and device temperature

Required user level: Installer

The user can configure the limits for supply voltage or device temperature warnings as well as the hysteresis in the Alarm limits menu.

→ Switch to the detailed view 'Parameters' for **General settings** (see <u>"7.3.1"</u>).

Adjusting alarm limits, supply voltage example:



The alarm limits for the supply voltage are adjusted.

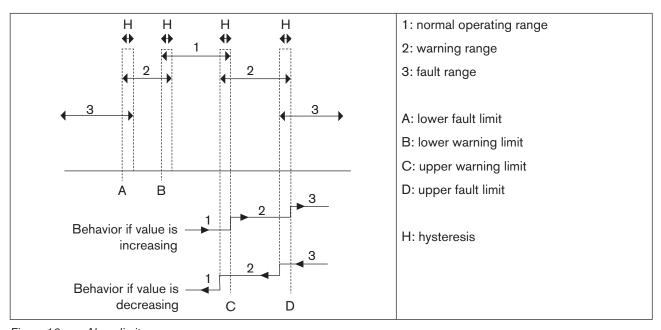


Figure 16: Alarm limits

The default settings are device specific and described in the corresponding operating instructions.



7.3.8 Quick start

Required user level: Installer

The user can configure the input assistant for initial start-up once more in the Quick start menu.

7.3.9 Activating or deactivating password protection, changing passwords (PIN)

Required user level: Installer

If password protection is deactivated, then this is the Installer user level.

→ Switch to the detailed view 'Parameters' for **General settings** (see "7.3.1").

Activating or deactivating password protection:



Password protection is activated or deactivated.

If password protection is activated, then the user can change the passwords (PINs).

→ Switch to the detailed view 'Parameters' for **General settings** (see <u>"7.3.1"</u>).

Changing passwords:



The password (PIN) is changed.



7.3.10 Reset device or product to factory default settings or restart

Required user level: Installer

→ Switch to the detailed view 'Parameters' for **General settings** (see "7.3.1").

Reset device or product to factory default settings:

The device or product is reset to factory default settings and restarted.

→ Switch to the detailed view 'Parameters' for **General settings** (see "7.3.1").

Restart the device or product:

The device or product is restarted.



7.4 Changing views (level 1)

The user can use the context menu to switch between the views.

The user can make the following changes in the views:

- Add or delete views
 Note: If there is only one view, then the user cannot delete this view.
- Change the view title
- Select display: Show values or graphs (trends)
- Select values or graphs

7.4.1 Open context menu

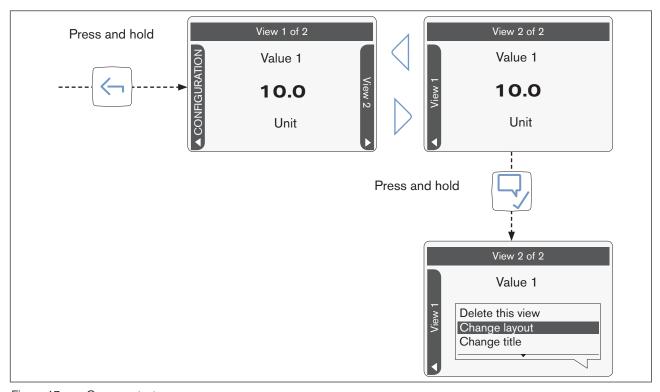


Figure 17: Open context menu

Open context menu:

Open context menu.

The context menu is open.

The user can select the menus here.



7.4.2 Add or delete view

The user can create up to 4 user-defined views for values or graphs (trends).

→ Switch to the view after which the new view should be inserted.

Add view:

The new view for values is added.

The new view is a view for values and shows the 1st value in the list of allowed values.

Information: If 4 views are already created, this menu item is not available.

→ Switch to the view to be deleted.

Delete view:

Press and hold : Open the context menu ---- Delete this view ----

The view is deleted.

Note: If there is only one view, then the user cannot delete this view.

7.4.3 Changing titles

The user can change the name of the view in the information bar under the Change title menu.

→ Switch to the view to be changed.

Changing the view title:

Press and hold : Open the context menu ----> Change title ----> enter title ----> OK.

The title of the view is changed.



7.4.4 Changing layouts

The user can select how many values (1, 2 or 4) or graphs (1 or 2) are displayed under the Change layout menu.

→ Switch to the view to be changed.

Change the view layout:



The layout of the view is changed.

The user can use the context menu to select which values or graphs (trends) are displayed (see"7.4.5" and "7.4.6").

View with values:

The position of the values on the display depends on the number:

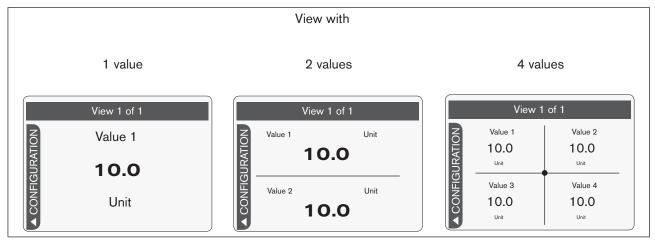


Figure 18: Position of the values (example)



7.4.5 Select values

In view 1 or a newly added view, the 1st value of the list in the **Change value** menu is inserted automatically in the context menu.

→ Switch to the view to be changed.

Selecting the value:

The value is selected.

The user can perform these steps for every value.

*) Selection only shown if there is more than one value.

7.4.6 Select values for graphs (trend)

In a newly added view for graphs, the 1st value of the list in the Change value menu is inserted automatically in the context menu.

→ Switch to the view to be changed.

Selecting the values for graphs:

The graph is selected.

The user can perform these steps for every value.

*) Selection only shown if there is more than one value.

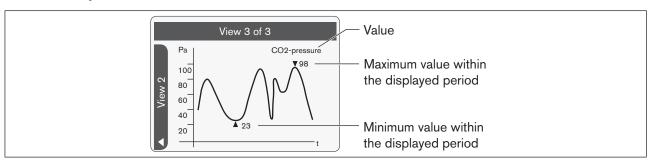


Figure 19: View for graphs (example)



7.4.7 Changing units

The user can select one of the available units for the selected values or graphs (trends) in the Change unit menu.

Views for values: Depending on the selected unit, the user can change the number of decimal places for the values.

→ Switch to the view to be changed.

Changing the unit:

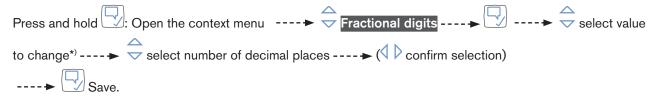


The unit is changed.

The user can perform these steps for every value.

- *) Query only available for multiple values.
- → Switch to the view to be changed.

Changing the number of decimal places:



The number of decimal places is changed.

The user can perform these steps for every value.

*) Query only available for multiple values.



7.5 Entering values with an input assistant

An input assistant guides the user through the required settings in a menu.

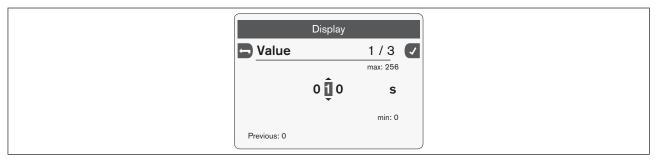


Figure 20: Input assistant (example)

Symbol	Description
	Press the button for the next step
	Press the button for the previous step

Table 8: Menu (example)



7.6 Context menu

The user can open a context menu in every view. The content depends on the active view.

Open context menu:

Press and hold :: Open context menu

The context menu is open.

Context menu content based on the view:

View	Content
Views 1 to 4	 Message overview*) Menus to change the layout Switch user level
Configuration view	Message overview*) Switch users
Parameter Maintenance Diagnostics	 Message overview*) Where am I?**) Create or delete shortcut (see "7.6.1") Switch user level
in the menu	 Message overview*) Save Where am I?**) Create or delete shortcut (see "7.6.1") Switch user level

Table 9: Context menu

**) Context menu: Where am I?

Shows the structure which this menu is in: Configuration area, view (and menu)

^{*)} Only available if a message is present.



7.6.1 Context menu: Create or delete shortcut

The user can create up to 3 shortcuts to views (Parameters, Maintenance, Diagnostics) or menus. Then these shortcuts appear in every context menu and allow the user to jump directly to the selected views or menus.

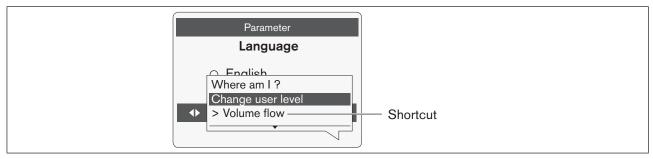


Figure 21: Shortcut

→ Switch to the view or menu for which a shortcut should be created.

Create shortcut:

The shortcut is created.

→ Switch to the view or menu in which the shortcut should be deleted.

Delete shortcut:

The shortcut is deleted.



7.7 User levels (user rights)

The 4 user levels define the rights which a user has with regard to reading, adjusting or changing data.

The menus are not available or marked with a a symbol according to the active user level.

The active user level is shown as a symbol in the information bar.

The user can change the user level in all views using the context menu.



Password protection can be deactivated: Then the Installer user level is active. Activating or deactivating password protection: see "7.7.2 Activating or deactivating password protection"

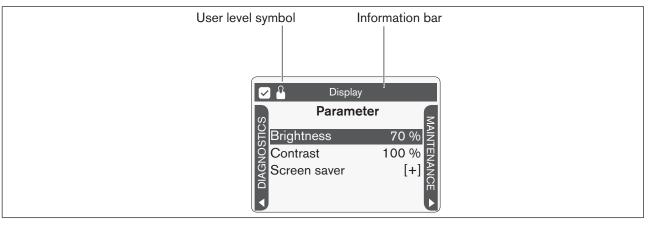


Figure 22: User level symbol

Description of the possible user levels:

Symbol	User level	Description		
	Standard user	No password required		
		Can read defined values		
		Limited rights to change values.		
0	Advanced user	Password required (standard password: 5678)		
		Can read defined values		
		Limited rights to change values.		
	Installer	Password required (standard password: 1946)		
		Can read all values		
		Expanded rights to change values.		
ß	Bürkert	Password required		
		Only for Bürkert employees		

Table 10: User levels



7.7.1 Changing the user level

The user can change the user level in all views using the context menu Change user level.

Changing the user level:



The user level is changed.

The active user level is shown as a symbol in the information bar.



The selected user level remains active until the user is deactivated in the context menu Logout or the screen saver turns on.

7.7.2 Activating or deactivating password protection

Required user level: Installer

Activating or deactivating password protection:



The display shows the detailed view 'Parameters' for the general settings.



Password protection is activated or deactivated.



8 ERROR AND STATUS MESSAGES

8.1 Device status messages

8.1.1 Status messages in the information bar on the display

The device status is shown as a symbol in the symbol bar on the basis of the NAMUR standard.

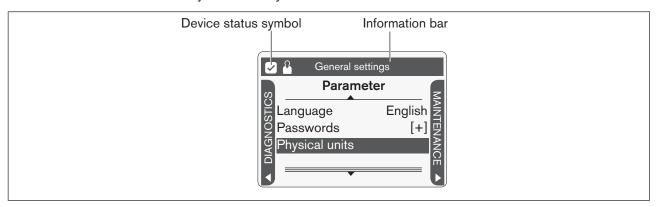


Figure 23: Device status symbol

Symbol	Status	Description	
8	Failure, error or fault	Due to a malfunction in the device or on its periphery, controlled operation is not possible.	
		→ Check the messages in the message overview.	
V	Function check	The device is being worked on; controlled operation is therefore temporarily not possible.	
	Out of specification	The ambient conditions or process conditions for the device are outside the specified area.	
		Device internal diagnostics point to problems in the device or with the process properties.	
0	Maintenance required	The device is in controlled operation, however function is briefly restricted. → Maintain device.	
	Diagnostics active	Device is operating faultlessly. Status changes are shown in color. Messages are transmitted via any connected field bus.	

Table 11: Device status symbol



8.1.2 LED illuminated ring status messages

In NAMUR mode, the device status can be shown on the LED illuminated ring in accordance with the NAMUR standard.

Status display in accordance with NE 107, edition 2006-06-12					
Color	Color code	Status	Description		
Red	5	Failure, error or fault	Due to a malfunction in the device or on its periphery, controlled operation is not possible.		
Orange	4	Function check	The device is being worked on; controlled operation is therefore temporarily not possible.		
Yellow	3	Out of specification	The ambient conditions or process conditions for the device are outside the specified area.		
			Device internal diagnostics point to problems in the device or with the process properties.		
Blue	2	Maintenance required	The device is in controlled operation, however function is briefly restricted.		
			→ Maintain device.		
Green	1	Diagnostics active	Device is operating faultlessly. Status changes are shown in color.		
			Messages are transmitted via any connected field bus.		
White	0	Diagnostics inactive	Device is switched on.		
			Status changes are not shown.		
			Messages are not transmitted via any connected field bus.		

Table 12: LED illuminated ring color



Further status display modes may be available on specific devices or products and are described in the corresponding operating instructions.



8.2 Show messages

The messages can be displayed as follows:

Showing messages:

Press and hold : Open the context menu ----> Messages overview ---->

The display shows the messages.

8.3 Other

Error message	Description	Corrective action
View 1 of 1	Value has (not) yet been sent or is incorrect.	

Table 13: Other error messages

