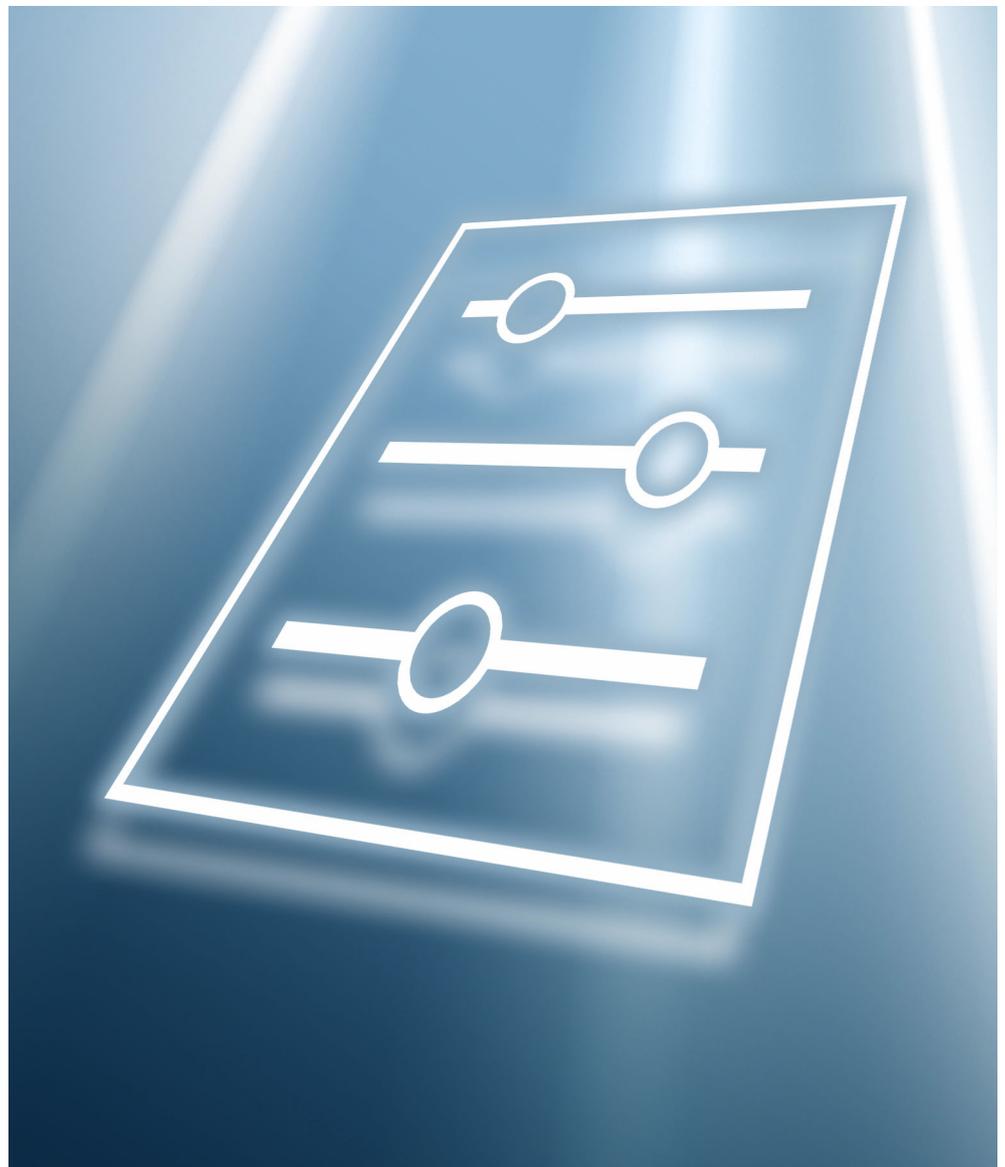


Description of Device Parameters

Cerabar PMP63B

Process pressure measurement
PROFINET over Ethernet-APL



1 About this document

1.1 Document function

The document is part of the Operating Instructions and serves as a reference for parameters.

Tasks that require detailed knowledge of the function of the device:

- Starting up measurements under difficult conditions
- Optimal adjustment of measurements to difficult conditions
- Detailed configuration of communication interface
- Fault diagnosis in difficult cases

1.2 Target group

This document is aimed at specialists who work with the device over the entire life cycle and perform specific configurations.

1.3 Document structure

The document consists of a general part and a specific part.

The structure of the document and its components are explained in the general part (section 1).

The specific part starts with an overview of the device operating menu, which is the focus of this manual.

The description of the device parameters follows the overview of the operating menu. The description is divided into 4 main menus and their submenus.

The 4 main menus:

- Guidance
- Diagnostics
- Application
- System

In the "Description of device parameters" section, the menus, submenus and parameters are displayed in the same way as they are laid out in the menu structure for the **operating tool**.

An operating tool is software, such as FieldCare, which can be used to display and edit the data and parameters stored in the device on a PC or laptop. Compared to operation via the local display, an operating tool offers more options. It provides additional information, such as graphics and help texts, which explain the properties of the parameters.

The submenus visible to a user depend on the **User role** (→  **61**) they are logged in with. This document lists the submenus and their parameters that are available to the User role **Maintenance**.

The operating menu is dynamic and adapts the choice of parameters to the selected options.



For information on operating options, see the Operating Instructions.

1.4 Elements of parameter descriptions

Parameter descriptions are structured and made up of a number of elements. Depending on the parameter, more or fewer elements may be available. Below are 2 examples of different parameters:

1	Simulation	
2	Navigation	Diagnostics → Simulation → Simulation
3	Prerequisite	Options marked with *: The corresponding device function must be available and configured.
4	Description	Simulates one or more process variables and/or events. Warning: - Output will reflect the simulated value or event.
5	Selection	<ul style="list-style-type: none"> ■ Off ■ Distance ■ Level ■ Level linearized * ■ Current output ■ Diagnostic event simulation ■ Foam index * ■ Build-up index *
6	Factory setting	Off

- 1 Name: Parameter designation (Label)
- 2 Navigation: Navigation path to the parameter. The graphics indicate whether the path applies to the onsite display, the operating tool or both.
- 3 Prerequisite: The marked options can only be selected under the condition specified in each case
- 4 Description: Description of the parameter function
- 5 Selection: List of the individual options for the parameter
- 6 Factory setting: Default setting on leaving the factory
- 7 The lock symbol indicates that the parameter is write-protected

1	Timestamp	
2	Navigation	Diagnostics → Active diagnos. → Timestamp
3	Description	Displays the timestamp for the currently active diagnostic message.
4	User interface	Days (d), hours (h), minutes (m), seconds (s)
5	Factory setting	
6	Additional information	Access: <ul style="list-style-type: none"> ■ Read access: Operator ■ Write access: -

- 1 Name: Parameter designation (Label)
- 2 Navigation: Navigation path to the parameter. The graphics indicate whether the path applies to the onsite display, the operating tool or both.
- 3 Description: Description of the parameter function
- 4 User interface: Display value/data of the parameter
- 5 Factory setting: Default setting on leaving the factory
- 6 Additional information:
Read and write access: Information on access rights that users with certain roles have to the parameter

Additional information at the end of the parameter description can refer to all elements of the parameter description and expand them.

1.5 Symbols

1.5.1 Safety symbols



This symbol alerts you to a dangerous situation. Failure to avoid this situation will result in serious or fatal injury.

⚠ WARNING

This symbol alerts you to a potentially dangerous situation. Failure to avoid this situation can result in serious or fatal injury.

⚠ CAUTION

This symbol alerts you to a potentially dangerous situation. Failure to avoid this situation can result in minor or medium injury.

NOTICE

This symbol alerts you to a potentially harmful situation. Failure to avoid this situation can result in damage to the product or something in its vicinity.

1.5.2 Symbols for certain types of information

-  Indicates additional information
-  Reference to documentation
-  Operation via local display
-  Operation via operating tool
-  Write-protected parameter

1.6 Documentation

 For an overview of the scope of the associated Technical Documentation, refer to the following:

- *Device Viewer* (www.endress.com/deviceviewer): Enter the serial number from the nameplate
- *Endress+Hauser Operations app*: Enter serial number from nameplate or scan matrix code on nameplate.

The documentation is available via the Internet: → www.endress.com Download

2 Overview of the operating menu

Navigation

 Operating tool

Guidance	→  16
▶ Commissioning	→  16
▶ Heartbeat Technology	→  17
▶ Heartbeat Verification	→  17
▶ SSD: Statistical Sensor Diagnostics	→  18
▶ Process window	→  18
▶ Import / Export	→  18
▶ Compare	→  18
Diagnostics	→  19
▶ Active diagnostics	→  19
Active diagnostics	→  19
Timestamp	→  19
Previous diagnostics	→  19
Timestamp	→  20
Operating time from restart	→  20
Operating time	→  20
▶ Event logbook	→  20
▶ Minimum/maximum values	→  21
Pressure min	→  21
Pressure max	→  21
Counter limit underruns sensor Pmin	→  21
Counter limit overruns sensor Pmax	→  22
Counter underruns of user limit Pmin	→  22

Counter overruns of user limit Pmax	→ 22
Minimum sensor temperature	→ 23
Maximum sensor temperature	→ 23
Counter limit underruns sensor Tmin	→ 23
Counter limit overruns sensor Tmax	→ 23
Counter underruns of user limit Tmin	→ 24
Counter overruns of user limit Tmax	→ 24
Minimum terminal voltage	→ 24
Maximum terminal voltage	→ 24
Minimum electronics temperature	→ 24
Maximum electronics temperature	→ 25
Reset user defined counters P and T	→ 25
► Simulation	→ 25
Simulation	→ 25
Diagnostic event simulation	→ 26
Value pressure simulation	→ 26
► Heartbeat Technology	→ 26
► Heartbeat Verification	→ 26
Date/time Heartbeat Verification	→ 26
Operating time (Verification)	→ 27
Verification result	→ 27
Status	→ 27
► Statistical Sensor Diagnostics	→ 28
SSD: Statistical Sensor Diagnostics	→ 28
System status	→ 28

Signal status	→ 28
Signal noise status	→ 29
▶ Diagnostic settings	→ 29
▶ Properties	→ 29
SSD Out of range delay time	→ 29
SSD Monitoring delay time	→ 30
500 Process alert pressure	→ 30
Low alert value	→ 30
High alert value	→ 30
501 Process alert scaled variable	→ 31
Low alert value	→ 31
High alert value	→ 31
User temperature process alert	→ 31
Low alert value	→ 32
High alert value	→ 32
▶ Configuration	→ 32
▶ Configuration	→ 32
436 Diagnostic behavior	→ 32
436 Event category	→ 33
500 Diagnostic behavior	→ 33
500 Event category	→ 33
501 Diagnostic behavior	→ 34
501 Event category	→ 34

	502 Diagnostic behavior	→ 34
	502 Event category	→ 35
	► Process	→ 35
	Sensor pressure range behavior	→ 35
	Sensor pressure range behavior	→ 35
	841 Event category	→ 36
	900 Event category	→ 36
	900 Diagnostic behavior	→ 36
	906 Diagnostic behavior	→ 37
	906 Event category	→ 37
Application		→ 38
	► Measured values	→ 41
	Pressure	→ 41
	Scaled variable	→ 41
	Sensor temperature	→ 42
	Terminal voltage 1	→ 42
	Electronics temperature	→ 42
	► Measuring units	→ 38
	Pressure unit	→ 38
	Decimal places pressure	→ 38
	Temperature unit	→ 39
	Scaled variable unit	→ 39
	Free text	→ 40
	Decimal places scaled variable	→ 41

▶ Sensor	→ 43
▶ Sensor calibration	→ 43
Zero adjustment	→ 43
Calibration offset	→ 43
Zero adjustment offset	→ 43
Sensor Trim Reset	→ 44
Lower sensor trim	→ 44
Upper sensor trim	→ 45
Lower range value	→ 45
Upper range value	→ 46
▶ Sensor configuration	→ 46
Damping	→ 46
▶ Sensor limits	→ 47
Lower Range Limit	→ 47
Upper Range Limit	→ 47
Minimum span	→ 47
Sensor temperature lower range limit	→ 47
Sensor temperature upper range limit	→ 48
▶ Scaled variable	→ 48
Scaled variable unit	→ 48
Free text	→ 49
Pressure	→ 50
Scaled variable transfer function	→ 50
Pressure value 1	→ 50
Scaled variable value 1	→ 50

Pressure value 2	→ 51
Scaled variable value 2	→ 51
► PROFINET	→ 51
► Configuration	→ 51
PROFINET device name	→ 51
Parameter change acknowledge mode	→ 52
Acknowledge parameter change	→ 52
Descriptor	→ 52
► Analog input	→ 53
► Analog input 1 to 7	→ 53
Process value	→ 53
Assign process variable	→ 53
Damping	→ 53
► Binary input	→ 55
► Binary input 1 to 2	→ 55
Controller input value	→ 55
► Binary output	→ 56
Set point value	→ 56
BO block output value	→ 56
Failure behavior	→ 57
Failure behavior delay	→ 57
Fixed value	→ 57

▶ Information	→ 58
Device ID	→ 58
PA profile version	→ 58
▶ Application relation	→ 58
AR state	→ 58
MAC address IO controller	→ 59
MAC address backup IO controller	→ 59
IP address IO controller	→ 59
IP address backup IO controller	→ 59
System	→ 60
▶ Device management	→ 60
Device tag	→ 60
Locking status	→ 60
Configuration counter	→ 60
Reset device	→ 61
▶ User management	→ 61
▶ User management	→ 61
User role	→ 61
Delete password	→ 62
Forgot password?	→ 62
▶ Enter password	→ 62
Password	→ 62
Enter access code	→ 62
Status password entry	→ 63
▶ Define password	→ 63

New password	→ 63
Confirm new password	→ 63
Status password entry	→ 64
▶ Change password	→ 64
Old password	→ 64
New password	→ 64
Confirm new password	→ 65
Status password entry	→ 65
▶ Recover password	→ 65
Reset password	→ 65
Status password entry	→ 66
▶ Connectivity	→ 66
▶ Interfaces	→ 66
Display operation	→ 66
Web server functionality	→ 66
Bluetooth activation	→ 67
Service (UART-CDI)	→ 67
▶ Ethernet	→ 67
MAC address	→ 67
IP address	→ 67
Subnet mask	→ 68
Default gateway	→ 68
Service IP active	→ 68
Interface connection status	→ 68
Interface speed	→ 69

Duplex status	→ 69
Auto negotiation status	→ 69
Received packet number	→ 69
Sent packet number	→ 70
Number of failed received packets	→ 70
Number of failed sent packets	→ 70
Signal to noise ratio	→ 70
Number of failed received packets	→ 71
Active TCP connections	→ 71
Supported TCP connections	→ 71
TCP connection requests	→ 72
TCP connection timeouts	→ 72
Number of TCP connections closed	→ 72
Number of received TCP packets	→ 72
TCP sent packet number	→ 72
Number of TCP failed received packets	→ 73
Available UDP ports	→ 73
UDP received packet number	→ 73
UDP sent packet number	→ 73
Number of UDP failed received packets	→ 74
► Display	→ 74
Language	→ 74
Format display	→ 75
Value 1 display	→ 75

Value 2 ... 4 display	→  75
Contrast display	→  76
► Date/time	→  76
Date/time	→  76
Time zone	→  76
Enable NTP	→  77
NTP server address	→  78
Clock synchronized	→  78
► Geolocation	→  78
Location description	→  78
Longitude	→  78
Latitude	→  79
Altitude	→  79
► Information	→  79
Device name	→  79
Manufacturer	→  80
Serial number	→  80
Order code	→  80
Firmware version	→  80
Hardware version	→  81
Extended order code 1 ... 3	→  81
Checksum	→  81
► Software configuration	→  86
CRC device configuration	→  86

Activate SW option	→ 86
Software option overview	→ 86

3 Description of device parameters

3.1 Guidance

In the **Guidance** menu, the user can quickly perform basic tasks, such as commissioning. These primarily consist of guided wizards and cross-thematic special functions.

Navigation  Guidance

3.1.1 Overview

The **Guidance** menu contains the following submenus and wizards:

- Commissioning
- Heartbeat Technology
 - Heartbeat Verification
 - SSD: Statistical Sensor Diagnostics
 - Process window
- Import / Export
- Compare

Commissioning

Run the **Commissioning** wizard to commission the device. Enter the appropriate value in each parameter or select the appropriate option.

WARNING

If the wizard is aborted before all the necessary parameters have been configured, any settings already made are saved.

The device may be in an undefined state!

- ▶ Reset the device to factory settings.

Navigation  Guidance → Commissioning

Parameters for the "Commissioning" wizard

The following parameters are configured or displayed in this wizard:

- **Device identification**
 - Device tag
 - Device name
 - Serial number
 - Extended order code 1 ... 3
 - Locking status
 - Time zone
 - Date/time
 - PROFINET device name
 - IP address
 - Descriptor
 - MAC address
 - Device ID
 - Manufacturer ID
- **Measurement adjustments**
 - Damping
 - Assign scaled variable?
 - Pressure unit
 - Temperature unit
 - Scaled variable unit
 - Zero adjustment
 - Pressure
- **Output settings**
 - Scaled variable transfer function
 - Lower Range Limit
 - Upper Range Limit
 - Minimum span
 - Linearization
 - Pressure value 1/2
 - Scaled variable value 1/2
 - Assign process variable

Heartbeat Technology

Heartbeat Technology offers the following functions:

- Diagnostics through continuous self-monitoring
- Additional measured variables output to an external condition monitoring system
- In situ verification of measuring instruments in the application

 Special Documentation on Heartbeat Technology is available via the Internet:
www.endress.com → Download

Navigation  Guidance → Heartbeat Techn.

Heartbeat Verification

This wizard is used to start an automatic verification of the device functionality. The results can be documented as a verification report.

Navigation  Guidance → Heartbeat Techn. → Heartbeat Verif.

SSD: Statistical Sensor Diagnostics

Using statistical analysis of the pressure signal, process anomalies such as plugged impulse lines can be detected. This wizard supports the settings and thresholds that should lead to a diagnostic message.

Navigation  Guidance → Heartbeat Techn. → Stat. Sens. Diag

Process window

This wizard uses user-defined limits for pressure and temperature to detect unwanted installation or application anomalies.

Applications:

- Defective heat tracer or insulation
- Frozen process connections
- Dynamic pressure peaks etc.

Navigation  Guidance → Heartbeat Techn. → Process window

Import / Export

Save / Restore

- The device settings can be saved in a .deh file.
- The device settings saved in a .deh file can be written to the device.

Create configuration report

Under Create configuration report, device documentation can be saved in PDF format. This device documentation contains the following general device information:

- Information on device parameters
- Event list
- Diagnostic list

Navigation  Guidance → Import / Export

Compare

Compare datasets

This function can be used to compare the following datasets:

- Data records in the .deh file format from the function Import / Export
- Datasets with the configuration currently in the device

Navigation  Guidance → Compare

3.2 Diagnostics

Navigation  Diagnostics

3.2.1 Active diagnostics

Navigation  Diagnostics → Active diagnos.

Active diagnostics

Navigation	 Diagnostics → Active diagnos. → Active diagnos.
Description	Displays the currently active diagnostic message. If there is more than one pending diagnostic event, the message for the diagnostic event with the highest priority is displayed.
User interface	<ul style="list-style-type: none"> ■ Operating time of the device until the event occurs ■ Symbol for diagnostic behavior ■ Code for diagnostic behavior ■ Event text ■ Corrective measure

Timestamp

Navigation	 Diagnostics → Active diagnos. → Timestamp
Description	Displays the timestamp for the currently active diagnostic message.
User interface	Days (d), hours (h), minutes (m), seconds (s)

Previous diagnostics

Navigation	 Diagnostics → Active diagnos. → Prev.diagnostics
Description	Displays the diagnostic message for the last diagnostic event that has ended.
User interface	<ul style="list-style-type: none"> ■ Operating time of the device until the event occurs ■ Symbol for diagnostic behavior ■ Code for diagnostic behavior ■ Event text ■ Corrective measure

Timestamp

Navigation	  Diagnostics → Active diagnos. → Timestamp
Description	Displays the timestamp of the diagnostic message generated for the last diagnostic event that has ended.
User interface	Days (d), hours (h), minutes (m), seconds (s)

Operating time from restart

Navigation	  Diagnostics → Active diagnos. → Time fr. restart
Description	Indicates how long the device has been in operation since the last time the device was restarted.
User interface	Days (d), hours (h), minutes (m), seconds (s)

Operating time

Navigation	  Diagnostics → Active diagnos. → Operating time
Description	Indicates how long the device has been in operation.
User interface	Days (d), hours (h), minutes (m), seconds (s)

3.2.2 Diagnostic list

Navigation   Diagnostics → Diagnostic list

3.2.3 Event logbook

Navigation   Diagnostics → Event logbook

Clear event list



Navigation	 Diagnostics → Event logbook → Clear event list
Description	Delete all entries of the event list.

Selection	<ul style="list-style-type: none"> ■ Cancel ■ Clear data
Factory setting	Cancel
Additional information	Access: <ul style="list-style-type: none"> ■ Read access: Expert ■ Write access: Expert

3.2.4 Minimum/maximum values

Navigation  Diagnostics → Min/max val.

Pressure min

Navigation	 Diagnostics → Min/max val. → Pressure min
Description	Minimum value measured by the device
User interface	Signed floating-point number
Factory setting	Positive floating-point number

Pressure max

Navigation	 Diagnostics → Min/max val. → Pressure max
Description	Maximum value measured by the device
User interface	Signed floating-point number
Factory setting	Negative floating-point number

Counter limit underruns sensor Pmin

Navigation	 Diagnostics → Min/max val. → Counter P < Pmin
Description	Counts how many times the value underruns the sensor specific minimum values. Sensor specific minimum values are shown in Application/Sensor menu.
User interface	0 to 65 535

Factory setting 0

Counter limit overruns sensor Pmax

Navigation  Diagnostics → Min/max val. → Counter P > Pmax

Description Counts how many times the value overruns the sensor specific maximum values. Sensor specific maximum values are shown in Application/Sensor menu.

User interface 0 to 65 535

Factory setting 0

Counter underruns of user limit Pmin

Navigation  Diagnostics → Min/max val. → Counter < P user

Description Counts how many times the value underruns the minimum values defined by the user. User defined minimum values are shown in Diagnostic/Diagnostic settings/Properties menu.

User interface 0 to 65 535

Factory setting 0

Additional information Only visible if Process window in Heartbeat Monitoring is activated.

Counter overruns of user limit Pmax

Navigation  Diagnostics → Min/max val. → Counter > P user

Description Counts how many times the value overruns the maximum values defined by the user. User defined maximum values are shown in Diagnostic/Diagnostic settings/Properties menu.

User interface 0 to 65 535

Factory setting 0

Additional information Only visible if Process window in Heartbeat Monitoring is activated.

Minimum sensor temperature

Navigation  Diagnostics → Min/max val. → Min. sensor temp

Description Minimum value measured by the device
Users cannot reset this value.

Maximum sensor temperature

Navigation  Diagnostics → Min/max val. → Max. sensor temp

Description Maximum value measured by the device
Users cannot reset this value.

Counter limit underruns sensor Tmin

Navigation  Diagnostics → Min/max val. → Counter T < Tmin

Description Counts how often the value falls below the sensor-specific minimum values. The sensor-specific minimum values are displayed in the Application (→  38)/Sensor (→  43) menu.

User interface 0 to 65 535

Factory setting 0

Counter limit overruns sensor Tmax

Navigation  Diagnostics → Min/max val. → Counter T > Tmax

Description Counts how often the value exceeds the sensor-specific maximum values. The sensor-specific maximum values are displayed in the Application (→  38)/Sensor (→  43) menu.

User interface 0 to 65 535

Factory setting 0

Counter underruns of user limit Tmin

Navigation	  Diagnostics → Min/max val. → Counter < T user
User interface	0 to 65 535
Factory setting	0
Additional information	Only visible if Process window in Heartbeat Monitoring is activated.

Counter overruns of user limit Tmax

Navigation	  Diagnostics → Min/max val. → Counter > T user
User interface	0 to 65 535
Factory setting	0
Additional information	Only visible if Process window in Heartbeat Monitoring is activated.

Minimum terminal voltage

Navigation	  Diagnostics → Min/max val. → Min.term.volt.
Description	Minimum terminal voltage measured (supply).
User interface	0.0 to 50.0 V

Maximum terminal voltage

Navigation	  Diagnostics → Min/max val. → Max.term.voltage
Description	Maximum terminal voltage measured (supply).
User interface	0.0 to 50.0 V

Minimum electronics temperature

Navigation	  Diagnostics → Min/max val. → Min.electr.temp.
Description	Minimum measured temperature of the main electronics.

User interface Signed floating-point number

Maximum electronics temperature

Navigation  Diagnostics → Min/max val. → Max.electr.temp.

Description Maximum measured temperature of the main electronics.

User interface Signed floating-point number

Reset user defined counters P and T



Navigation  Diagnostics → Min/max val. → Reset count. P T

Selection

- Cancel
- Confirm

Factory setting Cancel

Additional information Only visible if Process window in Heartbeat Monitoring is activated.

3.2.5 Simulation

Navigation  Diagnostics → Simulation

Simulation



Navigation  Diagnostics → Simulation → Simulation

Description Simulates one or more process variables and/or events.
Warning:
Output will reflect the simulated value or event.

Selection

- Off
- Pressure
- Diagnostic event simulation

Factory setting Off

Diagnostic event simulation



Navigation	Diagnostics → Simulation → Diag. event sim.
Description	Select the diagnostic event to be simulated. Note: To terminate the simulation, select "Off".
Selection	<ul style="list-style-type: none"> ▪ Off ▪ Drop-down list of diagnostic events
Factory setting	Off

Value pressure simulation



Navigation	Diagnostics → Simulation → Value pressure
User entry	Signed floating-point number
Factory setting	0 mbar

3.2.6 Heartbeat Technology

Navigation Diagnostics → Heartbeat Techn.

Heartbeat Verification

Navigation Diagnostics → Heartbeat Techn. → Heartbeat Verif.

Date/time Heartbeat Verification

Navigation	Diagnostics → Heartbeat Techn. → Heartbeat Verif. → Date/time Heartbeat Verification
Description	Date and time of last Heartbeat Verification. This value is updated with every Heartbeat verification. Note: If time information is not available, e.g. Heartbeat verification is started from display, '-----' is shown.
User interface	Character string comprising numbers, letters and special characters

Factory setting 01.01.1970 00:00:00

Operating time (Verification)

Navigation   Diagnostics → Heartbeat Techn. → Heartbeat Verif. → Operating time

Description Value of the operating hours counter at the time of verification.

User interface Days (d), hours (h), minutes (m), seconds (s)

Verification result

Navigation   Diagnostics → Heartbeat Techn. → Heartbeat Verif. → Verific. result

Description Result of Heartbeat Verification.

User interface

- Not done
- Passed
- Not done
- Failed

Factory setting Not done

Status

Navigation   Diagnostics → Heartbeat Techn. → Heartbeat Verif. → Status

Description Shows the actual status.

User interface

- Done
- Busy
- Failed
- Not done

Factory setting Not done

Statistical Sensor Diagnostics

Navigation  Diagnostics → Heartbeat Techn. → SSD

SSD: Statistical Sensor Diagnostics

Navigation	  Diagnostics → Heartbeat Techn. → SSD → Stat. Sens. Diag
Description	Enable or disable SSD. After selecting 'Disable', no statistical sensor diagnosis takes place. No diagnostic messages are output.
Selection	<ul style="list-style-type: none"> ■ Disable ■ Enable
Factory setting	Disable

System status

Navigation	  Diagnostics → Heartbeat Techn. → SSD → System status
User interface	<ul style="list-style-type: none"> ■ Idle ■ No sufficient signal noise ■ Stable ■ Not stable ■ Verify System Dynamics
Factory setting	Idle

Signal status

Navigation	  Diagnostics → Heartbeat Techn. → SSD → Signal status
User interface	<ul style="list-style-type: none"> ■ Idle ■ Building Baseline ■ Verifying Baseline ■ Verifying baseline failed ■ Monitoring ■ Out of range ■ Monitoring inactive
Factory setting	Idle

Signal noise status

Navigation	 Diagnostics → Heartbeat Techn. → SSD → Noise status
User interface	<ul style="list-style-type: none"> ■ Idle ■ Building Baseline ■ Verifying Baseline ■ Verifying baseline failed ■ Monitoring ■ Out of range ■ Monitoring inactive
Factory setting	Idle

Counter Baseline creation SSD

Navigation	 Diagnostics → Heartbeat Techn. → SSD → Counter Baseline
Description	Specifies how often the baseline has been rebuilt.
User interface	Positive integer
Factory setting	0
Additional information	<p>Access:</p> <ul style="list-style-type: none"> ■ Read access: Expert ■ Write access: -

3.2.7 Diagnostic settings

Navigation  Diagnostics → Diag. settings

Properties

Navigation  Diagnostics → Diag. settings → Properties

SSD Out of range delay time



Navigation	 Diagnostics → Diag. settings → Properties → SSD Delay time
User entry	0 to 604 800 s
Factory setting	600 s

SSD Monitoring delay time



Navigation	Diagnostics → Diag. settings → Properties → SSD Verz. Zeit
User entry	0 to 86 400 s
Factory setting	60 s

500 Process alert pressure



Navigation	Diagnostics → Diag. settings → Properties → 500 Pressure
Description	Define whether user-defined pressure limits should be set. If 'No' is selected, no analysis will take place and no event message will be generated.
Selection	<ul style="list-style-type: none"> ▪ Off ▪ On
Factory setting	Off

Low alert value



Navigation	Diagnostics → Diag. settings → Properties → Low alert value
Description	Set area. If this limit value is exceeded or undercut, an event is generated. There is no hysteresis.
User entry	Signed floating-point number
Factory setting	0 mbar

High alert value



Navigation	Diagnostics → Diag. settings → Properties → High alert value
Description	Set area. If this limit value is exceeded or undercut, an event is generated. There is no hysteresis.
User entry	Signed floating-point number
Factory setting	500 mbar

501 Process alert scaled variable



Navigation	Diagnostics → Diag. settings → Properties → 501 Scaled var.
Description	Define whether user-defined limits should be set. If 'No' is selected, no analysis will take place and no event message will be generated.
Selection	<ul style="list-style-type: none"> ■ Off ■ On
Factory setting	Off

Low alert value



Navigation	Diagnostics → Diag. settings → Properties → Low alert value
Description	Set area. If this limit value is exceeded or undercut, an event is generated. There is no hysteresis.
User entry	Signed floating-point number
Factory setting	0 %

High alert value



Navigation	Diagnostics → Diag. settings → Properties → High alert value
Description	Set area. If this limit value is exceeded or undercut, an event is generated. There is no hysteresis.
User entry	Signed floating-point number
Factory setting	100 %

User temperature process alert



Navigation	Diagnostics → Diag. settings → Properties → UserTemp alert
Description	Define whether the user-defined sensor temperature limits should be set. If 'No' no analysis and therefore no event message will take place.
Selection	<ul style="list-style-type: none"> ■ Off ■ On
Factory setting	Off

Low alert value

Navigation	Diagnostics → Diag. settings → Properties → Low alert value
Description	Set area. If this limit value is exceeded or undercut, an event is generated. There is no hysteresis.
User entry	-50 to 150 °C
Factory setting	-35 °C

High alert value

Navigation	Diagnostics → Diag. settings → Properties → High alert value
Description	Set area. If this limit value is exceeded or undercut, an event is generated. There is no hysteresis.
User entry	-50 to 150 °C
Factory setting	85 °C

Configuration

Navigation Diagnostics → Diag. settings → Configuration

Configuration

Navigation Diagnostics → Diag. settings → Configuration → Configuration

436 Diagnostic behavior

Navigation	Diagnostics → Diag. settings → Configuration → Configuration → 436 Diag. behav.
Selection	<ul style="list-style-type: none"> ▪ Warning ▪ Logbook entry only
Factory setting	Warning

436 Event category

Navigation	 Diagnostics → Diag. settings → Configuration → Configuration → 436 Event category
User interface	<ul style="list-style-type: none"> ■ Failure (F) ■ Function check (C) ■ Out of specification (S) ■ Maintenance required (M) ■ Not categorized
Factory setting	Maintenance required (M)

500 Diagnostic behavior



Navigation	  Diagnostics → Diag. settings → Configuration → Configuration → 500 Diag. behav.
Description	<p>Select event behavior</p> <p>'Logbook entry only': no digital or analog transmission of the message</p> <p>'Warning': Current output unchanged. Message is output digitally (default).</p> <p>'Alarm': Current output assumes the set alarm current.</p> <p>Regardless of the setting, the message appears on the display. If the permissible conditions are reached again, the warning is no longer available in the instrument.</p>
Selection	<ul style="list-style-type: none"> ■ Off ■ Alarm ■ Warning ■ Logbook entry only
Factory setting	Off

500 Event category

Navigation	  Diagnostics → Diag. settings → Configuration → Configuration → 500Event category
User interface	<ul style="list-style-type: none"> ■ Failure (F) ■ Function check (C) ■ Out of specification (S) ■ Maintenance required (M) ■ Not categorized
Factory setting	Out of specification (S)

501 Diagnostic behavior


Navigation	Diagnostics → Diag. settings → Configuration → Configuration → 501 Diag. behav.
Description	<p>Select event behavior</p> <p>'Logbook entry only': no digital or analog transmission of the message</p> <p>'Warning': Current output unchanged. Message is output digitally (default).</p> <p>'Alarm': Current output assumes the set alarm current.</p> <p>Regardless of the setting, the message appears on the display. If the permissible conditions are reached again, the warning is no longer available in the instrument.</p>
Selection	<ul style="list-style-type: none"> ■ Off ■ Alarm ■ Warning ■ Logbook entry only
Factory setting	Off

501 Event category

Navigation	Diagnostics → Diag. settings → Configuration → Configuration → 501Event category
User interface	<ul style="list-style-type: none"> ■ Failure (F) ■ Function check (C) ■ Out of specification (S) ■ Maintenance required (M) ■ Not categorized
Factory setting	Out of specification (S)

502 Diagnostic behavior


Navigation	Diagnostics → Diag. settings → Configuration → Configuration → 502 Diag. behav.
Description	<p>Select event behavior</p> <p>'Logbook entry only': no digital or analog transmission of the message</p> <p>'Warning': Current output unchanged. Message is output digitally (default).</p> <p>'Alarm': Current output assumes the set alarm current.</p> <p>Regardless of the setting, the message appears on the display. If the permissible conditions are reached again, the warning is no longer available in the instrument.</p>

- Selection**
- Off
 - Alarm
 - Warning
 - Logbook entry only

Factory setting Off

502 Event category

Navigation  Diagnostics → Diag. settings → Configuration → Configuration → 502Event category

- User interface**
- Failure (F)
 - Function check (C)
 - Out of specification (S)
 - Maintenance required (M)
 - Not categorized

Factory setting Out of specification (S)

Process

Navigation  Diagnostics → Diag. settings → Configuration → Process

Sensor pressure range behavior

Navigation  Diagnostics → Diag. settings → Configuration → Process → P-range behavior

Description Alarm and warning messages appear on the display. If the permissible conditions are reached again, the warning message disappears.

Select event behavior:

'Alarm':

The signal outputs assume the specified alarm condition. A diagnostic message is generated.

'Warning':

The signal outputs assume the specified warning condition. A diagnostic message is generated.

'Logbook entry only':

No digital or analog forwarding of the message. A diagnostic message is written in the logbook.

- Selection**
- Alarm
 - Warning
 - Logbook entry only

Factory setting Warning

841 Event category

Navigation	 Diagnostics → Diag. settings → Configuration → Process → 841 Event category
User interface	<ul style="list-style-type: none"> ■ Failure (F) ■ Function check (C) ■ Out of specification (S) ■ Maintenance required (M) ■ Not categorized
Factory setting	Out of specification (S)

900 Diagnostic behavior



Navigation	 Diagnostics → Diag. settings → Configuration → Process → 900 Diag. behav.
Description	<p>Select event behavior</p> <p>'Logbook entry only': No forwarding of the message via the fieldbus.</p> <p>'Warning': Warning message is transmitted via the fieldbus (default setting).</p> <p>Regardless of the setting, the message appears on the display. If the permissible conditions are reached again, the warning is no longer available in the instrument.</p>
Selection	<ul style="list-style-type: none"> ■ Warning ■ Logbook entry only
Factory setting	Warning

900 Event category

Navigation	 Diagnostics → Diag. settings → Configuration → Process → 900Event category
User interface	<ul style="list-style-type: none"> ■ Failure (F) ■ Function check (C) ■ Out of specification (S) ■ Maintenance required (M) ■ Not categorized
Factory setting	Maintenance required (M)

906 Diagnostic behavior


Navigation	Diagnostics → Diag. settings → Configuration → Process → 906 Diag. behav.
Description	<p>Select event behavior</p> <p>'Logbook entry only': No forwarding of the message via the fieldbus.</p> <p>'Warning': Warning message is transmitted via the fieldbus (default setting).</p> <p>Regardless of the setting, the message appears on the display. If the permissible conditions are reached again, the warning is no longer available in the instrument.</p>
Selection	<ul style="list-style-type: none"> ■ Off ■ Warning ■ Logbook entry only
Factory setting	Off

906 Event category

Navigation	Diagnostics → Diag. settings → Configuration → Process → 906Event category
User interface	<ul style="list-style-type: none"> ■ Failure (F) ■ Function check (C) ■ Out of specification (S) ■ Maintenance required (M) ■ Not categorized
Factory setting	Out of specification (S)

3.3 Application

Navigation  Application

3.3.1 Measuring units

Navigation  Application → Measuring units

Pressure unit

Navigation  Application → Measuring units → Pressure unit

- Selection
- MPa
 - kPa
 - Pa
 - bar
 - mbar
 - torr
 - atm
 - psi
 - kgf/cm²
 - gf/cm²
 - inH₂O
 - inH₂O (4°C)
 - mmH₂O
 - mmH₂O (4°C)
 - mH₂O
 - mH₂O (4°C)
 - ftH₂O
 - inHg
 - mmHg

Factory setting Depends on the order option

Decimal places pressure

Navigation  Application → Measuring units → Decimal pressure

Description This selection does not affect the measurement and calculation accuracy of the device.

- Selection
- Automatic
 - x
 - x.x
 - x.xx
 - x.xxx
 - x.xxxx

Factory setting Automatic

Temperature unit



Navigation	Application → Measuring units → Temperature unit						
Description	Used to display the electronics temperature.						
Selection	<table><tr><td><i>SI units</i></td><td><i>US units</i></td></tr><tr><td>■ °C</td><td>°F</td></tr><tr><td>■ K</td><td></td></tr></table>	<i>SI units</i>	<i>US units</i>	■ °C	°F	■ K	
<i>SI units</i>	<i>US units</i>						
■ °C	°F						
■ K							
Factory setting	°C						

Scaled variable unit



Navigation	Application → Measuring units → SV unit
Description	Use 'Free text', first selection, if the desired unit is not available in the selection list. It is possible to define a customer specific unit with another parameter.

Selection	SI units	US units	Imperial units
	<ul style="list-style-type: none"> ■ % ■ mm ■ cm ■ m ■ l ■ hl ■ m³ ■ g ■ kg ■ t ■ g/s ■ kg/s ■ kg/min ■ kg/h ■ t/min ■ t/h ■ t/d ■ m³/s ■ m³/min ■ m³/h ■ m³/d ■ l/s ■ l/min ■ l/h ■ Nm³/h ■ NI/h ■ Sm³/s ■ Sm³/min ■ Sm³/h ■ Sm³/d ■ Nm³/s ■ g/cm³ ■ kg/m³ ■ Nm³/min ■ Nm³/d 	<ul style="list-style-type: none"> ■ ft ■ in ■ ft³ ■ gal (us) ■ bbl (us;oil) ■ oz ■ lb ■ STon ■ lb/s ■ lb/min ■ lb/h ■ STon/min ■ STon/h ■ STon/d ■ ft³/s ■ ft³/min ■ ft³/h ■ ft³/d ■ gal/s (us) ■ gal/min (us) ■ gal/h (us) ■ gal/d (us) ■ bbl/s (us;oil) ■ bbl/min (us;oil) ■ bbl/h (us;oil) ■ bbl/d (us;oil) ■ Sft³/min ■ Sft³/h ■ Sft³/d 	<ul style="list-style-type: none"> ■ gal (imp) ■ gal/s (imp) ■ gal/min (imp) ■ gal/h (imp)
	<p><i>Custom-specific units</i></p> <p>Free text</p>		
Factory setting	%		

Free text



Navigation  Application → Measuring units → Free text

User entry Character string comprising numbers, letters and special characters (32)

Factory setting Free text

Decimal places scaled variable



Navigation	Application → Measuring units → Decimal scaled
Description	This selection does not affect the measurement and calculation accuracy of the device.
Selection	<ul style="list-style-type: none"> ■ x ■ x.X ■ x.XX ■ x.XXX ■ x.XXXX
Factory setting	x.xx

3.3.2 Measured values

Navigation Application → Measured values

Sensor pressure

Navigation	Application → Measured values → Sensor pressure
User interface	Signed floating-point number
Factory setting	0 mbar
Additional information	Access: <ul style="list-style-type: none"> ■ Read access: Expert ■ Write access: -

Pressure

Navigation	Application → Measured values → Pressure
Factory setting	0 mbar

Scaled variable

Navigation	Application → Measured values → Scaled variable
User interface	Signed floating-point number

Factory setting 0 %

Sensor temperature

Navigation  Application → Measured values → Sensor temp.

Description Displays the current temperature of the sensor.

User interface Floating point number with sign

Terminal voltage 1

Navigation  Application → Measured values → Terminal volt. 1

Description Shows the current terminal voltage that is applied at the output

User interface 0.0 to 50.0 V

Electronics temperature

Navigation  Application → Measured values → Electronics temp

Description Displays the current temperature of the main electronics.

User interface Signed floating-point number

3.3.3 Sensor

Navigation  Application → Sensor

Sensor calibration

Navigation  Application → Sensor → Sensor cal.

Zero adjustment

Navigation  Application → Sensor → Sensor cal. → Zero adjustment

Description Due to the mounting position of the measuring instrument, a pressure shift may occur. The pressure shift can be corrected with the zero adjustment.

Selection

- No
- Confirm

Factory setting No

Calibration offset

Navigation  Application → Sensor → Sensor cal. → Calibr offset

User entry Signed floating-point number

Factory setting 0 mbar

Additional information Parameters only available for absolute pressure sensors.

Zero adjustment offset

Navigation  Application → Sensor → Sensor cal. → Zero adj. offset

User entry Signed floating-point number

Factory setting 0 mbar

Sensor Trim Reset



Navigation	Application → Sensor → Sensor cal. → Sen. Trim Reset
Selection	<ul style="list-style-type: none"> ▪ No ▪ Confirm
Factory setting	No

Lower sensor trim measured value

Navigation	Application → Sensor → Sensor cal. → LowerTrimMeasVal
User interface	Signed floating-point number
Factory setting	0 mbar

Lower sensor trim



Navigation	Application → Sensor → Sensor cal. → LowerSensor trim
Description	<p>Using the Lower sensor trim and Upper sensor trim parameters, a sensor can be recalibrated, e.g. if the sensor is to be precisely calibrated to the measuring range. Maximum measurement accuracy of the sensor is achieved when the value for the Lower sensor trim parameter is as close as possible to the lower measuring range, and the value for the Upper sensor trim parameter is as close as possible to the upper measuring range.</p> <p>There must be a known reference pressure when setting a new lower or upper sensor characteristic curve value.</p> <p>The more accurate the reference device used for sensor calibration, the higher the measurement accuracy of the pressure transmitter will be later.</p> <p>Using the Lower sensor trim and Upper sensor trim parameters, a new value is then assigned to the applied pressure.</p> <p> The entered value must not exceed Sensor pressure +/- 10 % of the permissible maximum pressure (URL).</p> <p>Input as follows:</p> <ul style="list-style-type: none"> ▪ Apply reference pressure for the lower measuring range. ▪ Enter and confirm the reference pressure in the Lower sensor trim field. ▪ Apply reference pressure for the upper measuring range. ▪ Enter and confirm the reference pressure in the Upper sensor trim field. ▪ The sensor calibration is now complete.
User entry	Signed floating-point number
Factory setting	0 mbar

Upper sensor trim measured value

Navigation	 Application → Sensor → Sensor cal. → UpperTrimMeasVal
User interface	Signed floating-point number
Factory setting	500 mbar

Upper sensor trim

Navigation	 Application → Sensor → Sensor cal. → UpperSensor trim
Description	<p>Using the Lower sensor trim and Upper sensor trim parameters, a sensor can be recalibrated, e.g. if the sensor is to be precisely calibrated to the measuring range. Maximum measurement accuracy of the sensor is achieved when the value for the Lower sensor trim parameter is as close as possible to the lower measuring range, and the value for the Upper sensor trim parameter is as close as possible to the upper measuring range.</p> <p>There must be a known reference pressure when setting a new lower or upper sensor characteristic curve value.</p> <p>The more accurate the reference device used for sensor calibration, the higher the measurement accuracy of the pressure transmitter will be later.</p> <p>Using the Lower sensor trim and Upper sensor trim parameters, a new value is then assigned to the applied pressure.</p> <p> The entered value must not exceed Sensor pressure +/- 10 % of the permissible maximum pressure (URL).</p> <p>Input as follows:</p> <ul style="list-style-type: none"> ▪ Apply reference pressure for the lower measuring range. ▪ Enter and confirm the reference pressure in the Lower sensor trim field. ▪ Apply reference pressure for the upper measuring range. ▪ Enter and confirm the reference pressure in the Upper sensor trim field. ▪ The sensor calibration is now complete.
User entry	Signed floating-point number
Factory setting	500 mbar

Lower range value

Navigation	 Application → Sensor → Sensor cal. → Lower range val.
Description	<p>The calibrated span corresponds to the span between the LRV and URV.</p> <p>Factory setting: 0 to URL.</p> <p>Other calibrated spans can be ordered as customized span.</p>
User entry	Signed floating-point number
Factory setting	0 mbar

Upper range value


Navigation	Application → Sensor → Sensor cal. → Upper range val.
Description	The calibrated span corresponds to the span between the LRV and URV. Factory setting: 0 to URL. Other calibrated spans can be ordered as customized span.
User entry	Signed floating-point number
Factory setting	500 mbar

Basic settings

Navigation Application → Sensor → Basic settings

Damping


Navigation	Application → Sensor → Sensor conf. → Damping
Description	The damping is effective before the measured value is further processed, i.e., before the following processes: <ul style="list-style-type: none"> - Scaling - Limit value monitoring - Forwarding to display - Forwarding to Analog Input Block <p>Note: The Analog Input Block has its own “Damping” parameter. In the measurement chain, only one of the two attenuation parameters shall have a value other than 0. Otherwise, the signal will be attenuated several times.</p>
User entry	0 to 999.0 s
Factory setting	0 s

Sensor limits

Navigation  Application → Sensor → Sensor limits

Lower Range Limit

Navigation	 Application → Sensor → Sensor limits → LRL
Description	Indicates the lower measuring limit of the sensor.
User interface	Signed floating-point number
Factory setting	Depends on the order option

Upper Range Limit

Navigation	 Application → Sensor → Sensor limits → URL
Description	Indicates the upper measuring limit of the sensor.
User interface	Signed floating-point number
Factory setting	Depends on the order option

Minimum span

Navigation	 Application → Sensor → Sensor limits → Minimum span
Description	Specifies the smallest possible measuring span of the sensor.
User interface	Signed floating-point number
Factory setting	0.498504 mbar

Sensor temperature lower range limit

Navigation	 Application → Sensor → Sensor limits → Sens.temp.lo.lim
Factory setting	-35 °C

Sensor temperature upper range limit

Navigation  Application → Sensor → Sensor limits → Sens.temp.up.lim

Factory setting 85 °C

Scaled variable

Navigation   Application → Sensor → Scaled variable

Scaled variable unit



Navigation   Application → Sensor → Scaled variable → SV unit

Description Use 'Free text', first selection, if the desired unit is not available in the selection list. It is possible to define a customer specific unit with another parameter.

Selection	<i>SI units</i>	<i>US units</i>	<i>Imperial units</i>
	<ul style="list-style-type: none"> ■ % ■ mm ■ cm ■ m ■ l ■ hl ■ m³ ■ g ■ kg ■ t ■ g/s ■ kg/s ■ kg/min ■ kg/h ■ t/min ■ t/h ■ t/d ■ m³/s ■ m³/min ■ m³/h ■ m³/d ■ l/s ■ l/min ■ l/h ■ Nm³/h ■ NI/h ■ Sm³/s ■ Sm³/min ■ Sm³/h ■ Sm³/d ■ Nm³/s ■ g/cm³ ■ kg/m³ ■ Nm³/min ■ Nm³/d <p><i>Custom-specific units</i> Free text</p>	<ul style="list-style-type: none"> ■ ft ■ in ■ ft³ ■ gal (us) ■ bbl (us;oil) ■ oz ■ lb ■ STon ■ lb/s ■ lb/min ■ lb/h ■ STon/min ■ STon/h ■ STon/d ■ ft³/s ■ ft³/min ■ ft³/h ■ ft³/d ■ gal/s (us) ■ gal/min (us) ■ gal/h (us) ■ gal/d (us) ■ bbl/s (us;oil) ■ bbl/min (us;oil) ■ bbl/h (us;oil) ■ bbl/d (us;oil) ■ Sft³/min ■ Sft³/h ■ Sft³/d 	<ul style="list-style-type: none"> ■ gal (imp) ■ gal/s (imp) ■ gal/min (imp) ■ gal/h (imp)

Factory setting %

Free text 

Navigation   Application → Sensor → Scaled variable → Free text

User entry Character string comprising numbers, letters and special characters (32)

Factory setting Free text

Pressure

Navigation  Application → Sensor → Scaled variable → Pressure

Factory setting 0 mbar

Scaled variable transfer function



Navigation  Application → Sensor → Scaled variable → Scal. v. trans.

Description "Linear": The linear pressure signal is used for the output. The flow must be calculated in the evaluation unit.

"Table": The output is defined by the entered table, scaled variable/pressure.

Selection

- Linear
- Table

Factory setting Linear

Pressure value 1



Navigation  Application → Sensor → Scaled variable → P. value 1

Description Enter pressure for the first scaling point. 'Scaled variable value 1' will be allocated to this pressure.

User entry Signed floating-point number

Factory setting 0 mbar

Scaled variable value 1

Navigation  Application → Sensor → Scaled variable → Sc. var.value 1

Description Enter value for the first scaling point. This value is allocated to 'Pressure value 1'.

User interface Signed floating-point number

Factory setting 0 %

Pressure value 2



Navigation	Application → Sensor → Scaled variable → P. value 2
Description	Enter pressure for the second scaling point. 'Scaled variable value 2' will be allocated to this pressure.
User entry	Signed floating-point number
Factory setting	500 mbar

Scaled variable value 2



Navigation	Application → Sensor → Scaled variable → Sc. var.value 2
Description	Enter value for the second scaling point. This value is allocated to 'Pressure value 2'.
User entry	Signed floating-point number
Factory setting	100 %

3.3.4 PROFINET

Navigation Application → PROFINET

Configuration

Navigation Application → PROFINET → Configuration

PROFINET device name

Navigation	Application → PROFINET → Configuration → PROFINET DevName
Description	<p>Up to 240 characters are allowed. The following syntax must be used:</p> <ul style="list-style-type: none"> - 1 or more identifiers, separated with [.] - Identifier length is 1 to 63 characters - Identifier consists of [a-z 0-9] only lowercase letters and numbers allowed.

Parameter change acknowledge mode

Navigation	 Application → PROFINET → Configuration → ParaChngAcknMode
Description	Select how to acknowledge the displayed flag when changing the device configuration: - "Auto acknowledge": the flag disappears automatically after 20 seconds. - "Manual acknowledge": the flag must be acknowledged manually.
Selection	<ul style="list-style-type: none"> ■ Auto acknowledge ■ Manual acknowledge
Factory setting	Auto acknowledge

Acknowledge parameter change

Navigation	 Application → PROFINET → Configuration → AcknParaChange
Description	If the Option "Manual acknowledge" is selected as the acknowledgement type, then a parameter change must be acknowledged with the "Reset update event flag" option.
Selection	<ul style="list-style-type: none"> ■ No acknowledge ■ Reset update event flag
Factory setting	No acknowledge

Descriptor

Navigation	 Application → PROFINET → Configuration → Descriptor
Description	Enter a description for the measuring point
User entry	Character string comprising numbers, letters and special characters (54)

Analog input

Navigation  Application → PROFINET → Analog input

Analog input 1 to 3

Navigation  Application → PROFINET → Analog input → Analog input 1 to 3

Process value

Navigation	 Application → PROFINET → Analog input → Analog input 1 to 7 → Process value
Description	Shows the process value reported to the controller for further processing
User interface	Signed floating-point number
Factory setting	0 mbar

Assign process variable

Navigation	 Application → PROFINET → Analog input → Analog input 1 to 7 → Assign variable
Description	
User interface	<ul style="list-style-type: none"> ■ Pressure * ■ Scaled variable * ■ Sensor temperature ■ Sensor pressure * ■ Electronics temperature ■ Median of pressure signal * ■ Noise of pressure signal *
Factory setting	Pressure

Damping

Navigation	 Application → PROFINET → Analog input → Analog input 1 to 7 → Damping
Description	Enter time constant for input damping (PT1 element). Damping reduces the effect of fluctuations in the measured value on the output signal.
User entry	Positive floating-point number

* Visibility depends on order options or device settings

Factory setting 1.0 s

Simulation value

Navigation  Application → PROFINET → Analog input → Analog input 1 to 7 → Simulation value

Description Enter the simulation value for the selected process variable

User entry Signed floating-point number

Factory setting 0 mbar

Additional information **Access:**

- Read access: Expert
- Write access: Maintenance

Simulated status

Navigation  Application → PROFINET → Analog input → Analog input 1 to 7 → Simulated status

Description To simulate a process status for this block. Possible input values can be taken from the PA profile used, see there under the chapter "Process variable status and diagnosis".

Examples for status values are:

0x80 (decimal 128) for status "GOOD".

0x24 (decimal 36) for status "BAD"

User entry 0 to 255

Factory setting 60

Additional information **Access:**

- Read access: Expert
- Write access: Maintenance

Simulation

Navigation  Application → PROFINET → Analog input → Analog input 1 to 7 → Simulation

Description Switch simulation of the analog input on or off (Off = 0, On <> 0)

User entry 0 to 255

Factory setting 0

Additional information

Access:

- Read access: Expert
- Write access: Maintenance

Binary input

Navigation  Application → PROFINET → Binary input

Binary input 1 to 2

Navigation  Application → PROFINET → Binary input → Binary input 1 to 2

Controller input value

Navigation

 Application → PROFINET → Binary input → Binary input 1 to 2 → ControllInputVal

Description

Shows for each device function the state reported to the controller for further processing

User interface

0 to 255

Factory setting

0

Simulation value

Navigation

 Application → PROFINET → Binary input → Binary input 1 to 2 → Simulation value

Description

Enter the simulated state for each device function

User entry

0 to 255

Factory setting

0

Additional information

Access:

- Read access: Expert
- Write access: Maintenance

Simulated status

Navigation

 Application → PROFINET → Binary input → Binary input 1 to 2 → Simulated status

Description

Specify the status of the simulated state for each device function (Hex)

User entry	0 to 255
Factory setting	60
Additional information	Access: <ul style="list-style-type: none"> ■ Read access: Expert ■ Write access: Maintenance

Simulation

Navigation	 Application → PROFINET → Binary input → Binary input 1 to 2 → Simulation
Description	Switch simulation of the binary input on or off (Off = 0; On <> 0)
User entry	0 to 255
Factory setting	0
Additional information	Access: <ul style="list-style-type: none"> ■ Read access: Expert ■ Write access: Maintenance

Binary output

Navigation  Application → PROFINET → Binary output

Set point value

Navigation	 Application → PROFINET → Binary output → Set point value
User entry	0 to 255
Factory setting	0

BO block output value

Navigation	 Application → PROFINET → Binary output → BOBlockOutValue
Description	Shows for each device function the state reported to the measuring device for further processing
User entry	0 to 255

Factory setting 0

Failure behavior

Navigation  Application → PROFINET → Binary output → Failure behavior

Description Select failure behavior in the event of a failure (value with status 'Bad')

Selection

- Fixed value
- Last valid value
- Actual value

Factory setting Fixed value

Failure behavior delay

Navigation  Application → PROFINET → Binary output → FailBehavDelay

Description Enter a delay until in the event of a failure (value with status 'Bad') the failure behavior specified applies

User entry Positive floating-point number

Factory setting 0 s

Fixed value

Navigation  Application → PROFINET → Binary output → Fixed value

Description Enter value to report in the event of a failure (value with status 'Bad')

User entry 0 to 255

Factory setting 0

Information

Navigation  Application → PROFINET → Information

Device ID

Navigation	 Application → PROFINET → Information → Device ID
User interface	0 to 65 535
Factory setting	41 514

PA profile version

Navigation	 Application → PROFINET → Information → PA profile vers.
User interface	0 to 65 535
Factory setting	0x402

Application relation

Navigation  Application → PROFINET → Applicat. relat.

AR state

Navigation	 Application → PROFINET → Applicat. relat. → AR state
Description	Shows whether an AR connection and a system redundancy have been established
User interface	<ul style="list-style-type: none"> ■ Active ■ Not active ■ Redundancy 1AR active ■ Redundancy 2AR active
Factory setting	Not active

MAC address IO controller

Navigation	 Application → PROFINET → Applicat. relat. → MAC IO contr.
Description	Shows the MAC address of the only or of the primary IO controller
User interface	Character string comprising numbers, letters and special characters
Factory setting	0x00

MAC address backup IO controller

Navigation	 Application → PROFINET → Applicat. relat. → MAC backup IO c.
Description	Shows the MAC adress of the backup IO controller
User interface	Character string comprising numbers, letters and special characters
Factory setting	0x00

IP address IO controller

Navigation	 Application → PROFINET → Applicat. relat. → IP IO controller
Description	Shows the IP address of the only or of the primary IO controller
User interface	Character string comprising numbers, letters and special characters
Factory setting	0x00

IP address backup IO controller

Navigation	 Application → PROFINET → Applicat. relat. → IP backup IO c.
Description	Shows the IP adress of the backup IO controller
User interface	Character string comprising numbers, letters and special characters
Factory setting	0x00

3.4 System

Navigation  System

3.4.1 Device management

Navigation  System → Device manag.

Device tag

Navigation	 System → Device manag. → Device tag
Description	Enter a name for the measuring point to identify the measuring device in the plant
User entry	Character string comprising numbers, letters and special characters (32)

Locking status

Navigation	 System → Device manag. → Locking status
Description	<p>Indicates the type of locking.</p> <p>'Hardware locked' (HW) The device is locked by the 'WP' switch on the main electronics module. To unlock, set the switch into the OFF position.</p> <p>'Temporarily locked' (SW) The device is temporarily locked by processes in the device (e.g. data upload/download, reset). The device will automatically be unlocked after completion of these processes.</p>
User interface	<ul style="list-style-type: none"> ■ Hardware locked ■ Temporarily locked

Configuration counter

Navigation	 System → Device manag. → Config. counter
Description	Shows the number of changes made to static parameters (e.g. configuration parameters)
User interface	0 to 65 535
Factory setting	0

Reset device		
Navigation	  System → Device manag. → Reset device	
Description	Reset the device configuration - either entirely or in part - to a defined state	
Selection	<ul style="list-style-type: none"> ■ Cancel ■ To factory defaults * ■ To delivery settings * ■ Restart device 	
Factory setting	Cancel	

3.4.2 User management

Navigation  System → User manag.

User management

Navigation  System → User manag. → User manag.

User role	
Navigation	 System → User manag. → User manag. → User role
Description	Shows the access authorization to the parameters via the operating tool
User interface	<ul style="list-style-type: none"> ■ Operator ■ Maintenance ■ Expert ■ Production ■ Development
Factory setting	Maintenance

* Visibility depends on order options or device settings

Delete password



Navigation  System → User manag. → User manag. → Delete password

Description Deletes the 'Maintenance' password.
After deleting, the 'Operator' role will be no more available.
All users have read/write access rights.

User entry Character string comprising numbers, letters and special characters (1)

Forgot password?

Navigation  System → User manag. → User manag. → Forgot password?

User entry Character string comprising numbers, letters and special characters (1)

Enter password

Navigation  System → User manag. → Enter password

Password

Navigation  System → User manag. → Enter password → Password

Description Enter the password for the 'Maintenance' user role to get access to the functionality of this role.

User entry Character string comprising numbers, letters and special characters (16)

Enter access code



Navigation  System → User manag. → Enter password → Ent. access code

Description For authorized service personnel only.

User entry 0 to 9999

Factory setting 0

Status password entry

Navigation  System → User manag. → Enter password → Status pw entry

Description Use this function to display the status of the password verification.

- User interface**
- -----
 - Wrong password
 - Password rule violated
 - Password accepted
 - Permission denied
 - Confirm PW mismatch
 - Reset password accepted
 - Invalid user role
 - Wrong sequence of entry

Factory setting -----

Define password

Navigation  System → User manag. → Define password

New password



Navigation  System → User manag. → Define password → New password

Description Define the new 'Maintenance' password.
 A new password is valid after it has been confirmed within the 'Confirm new password' parameter.
 Any valid password consists of 4 to 16 characters and can contain letters and numbers.

User entry Character string comprising numbers, letters and special characters (16)

Confirm new password



Navigation  System → User manag. → Define password → Conf. new passw.

Description Enter the new password again to confirm.

User entry Character string comprising numbers, letters and special characters (16)

Status password entry

Navigation  System → User manag. → Define password → Status pw entry

Description Use this function to display the status of the password verification.

User interface

- -----
- Wrong password
- Password rule violated
- Password accepted
- Permission denied
- Confirm PW mismatch
- Reset password accepted
- Invalid user role
- Wrong sequence of entry

Factory setting -----

Change password

Navigation  System → User manag. → Change password

Old password



Navigation  System → User manag. → Change password → Old password

Description Enter the current password, to subsequently change the existing password.

User entry Character string comprising numbers, letters and special characters (16)

New password



Navigation  System → User manag. → Change password → New password

Description Define the new 'Maintenance' password.
A new password is valid after it has been confirmed within the 'Confirm new password' parameter.
Any valid password consists of 4 to 16 characters and can contain letters and numbers.

User entry Character string comprising numbers, letters and special characters (16)

Confirm new password



Navigation	System → User manag. → Change password → Conf. new passw.
Description	Enter the new password again to confirm.
User entry	Character string comprising numbers, letters and special characters (16)

Status password entry

Navigation	System → User manag. → Change password → Status pw entry
Description	Use this function to display the status of the password verification.
User interface	<ul style="list-style-type: none"> ■ ----- ■ Wrong password ■ Password rule violated ■ Password accepted ■ Permission denied ■ Confirm PW mismatch ■ Reset password accepted ■ Invalid user role ■ Wrong sequence of entry
Factory setting	-----

Recover password

Navigation System → User manag. → Recover password

Reset password

Navigation	System → User manag. → Recover password → Reset password
Description	Enter a code to reset the current 'Maintenance' password. The code is delivered by your local support.
User entry	Character string comprising numbers, letters and special characters (16)

Status password entry

Navigation	 System → User manag. → Recover password → Status pw entry
Description	Use this function to display the status of the password verification.
User interface	<ul style="list-style-type: none"> ■ ----- ■ Wrong password ■ Password rule violated ■ Password accepted ■ Permission denied ■ Confirm PW mismatch ■ Reset password accepted ■ Invalid user role ■ Wrong sequence of entry
Factory setting	-----

3.4.3 Connectivity

Navigation   System → Connectivity

Interfaces

Navigation   System → Connectivity → Interfaces

Display operation



Navigation	  System → Connectivity → Interfaces → DisplayOperation
Selection	<ul style="list-style-type: none"> ■ Disable ■ Enable
Factory setting	Enable

Web server functionality



Navigation	  System → Connectivity → Interfaces → Webserver funct.
Description	Switch the Web server on and off.
Selection	<ul style="list-style-type: none"> ■ Disable ■ Enable

Factory setting Enable

Bluetooth activation

Navigation   System → Connectivity → Interfaces → Bluetooth active

Description If Bluetooth is deactivated, it can only be reactivated via the display or the operating tool. Reactivating via the SmartBlue app is not possible.

Selection

- Disable
- Enable

Factory setting Enable

Service (UART-CDI)

Navigation   System → Connectivity → Interfaces → Service (CDI)

Selection

- Disable
- Enable

Factory setting Enable

Ethernet

Navigation   System → Connectivity → Ethernet

MAC address

Navigation   System → Connectivity → Ethernet → MAC Address

Description Shows the MAC address of the measuring device

User interface Character string comprising numbers, letters and special characters

IP address

Navigation  System → Connectivity → Ethernet → IP address

Description Enter the IP address of the device. Then accept the change with "Apply".

User entry Character string comprising numbers, letters and special characters (15)

Factory setting 192.168.1.212

Subnet mask

Navigation  System → Connectivity → Ethernet → Subnet mask

Description Enter subnet mask of the measuring device. Then accept the change with "Apply".

User entry Character string comprising numbers, letters and special characters (15)

Factory setting 255.255.255.0

Default gateway

Navigation  System → Connectivity → Ethernet → Default gateway

Description Enter IP address for the default gateway of the measuring device. Then accept the change with "Apply".

User entry Character string comprising numbers, letters and special characters (15)

Factory setting 0.0.0.0

Service IP active

Navigation   System → Connectivity → Ethernet → Service IP act.

User interface

- No
- Yes

Factory setting No

Interface connection status

Navigation   System → Connectivity → Ethernet → Interface status

User interface

- Connected
- Not connected

Factory setting Not connected

Interface speed

Navigation	 System → Connectivity → Ethernet → Interface speed
User interface	Positive integer
Factory setting	0 MBaud

Duplex status

Navigation	 System → Connectivity → Ethernet → Duplex status
User interface	<ul style="list-style-type: none">■ Full duplex■ Half duplex■ Unknown
Factory setting	Unknown

Auto negotiation status

Navigation	 System → Connectivity → Ethernet → Auto negot.stat.
User interface	<ul style="list-style-type: none">■ Idle■ In progress■ Completed■ Failed■ Speed detection failed
Factory setting	Idle

Received packet number

Navigation	 System → Connectivity → Ethernet → RX packet no.
User interface	Positive integer
Factory setting	0

Sent packet number

Navigation	 System → Connectivity → Ethernet → TX packet number
User interface	Positive integer
Factory setting	0

Number of failed received packets

Navigation	 System → Connectivity → Ethernet → FailRcvdPackets
User interface	Positive integer
Factory setting	0

Number of failed sent packets

Navigation	 System → Connectivity → Ethernet → FailTXPacketsNo.
User interface	Positive integer
Factory setting	0

Reset Ethernet diagnostics



Navigation	 System → Connectivity → Ethernet → ResetEthernDiag.
Selection	<ul style="list-style-type: none"> ■ Cancel ■ Reset
Factory setting	Cancel

Signal to noise ratio

Navigation	 System → Connectivity → Ethernet → SNR
Description	Shows the signal to noise ratio of the Ethernet-APL connection. A value >21dB is good and >23dB is excellent.
User interface	Signed floating-point number

Factory setting 0 dB

Number of failed received packets

Navigation  System → Connectivity → Ethernet → FailRXPacketsNo.

Description Shows the number of failed received packets.

User interface 0 to 65 535

Factory setting 0

Reset Ethernet diagnostics

Navigation  System → Connectivity → Ethernet → ResetEthernDiag.

Selection Cancel
 Reset

Factory setting Cancel

Active TCP connections

Navigation  System → Connectivity → Ethernet → Act. TCP connec.

User interface 0 to 65 535

Factory setting 0

Supported TCP connections

Navigation  System → Connectivity → Ethernet → Supported TCP

User interface 0 to 65 535

Factory setting 0

TCP connection requests

Navigation	 System → Connectivity → Ethernet → TCPConnecRequest
User interface	0 to 65 535
Factory setting	0

TCP connection timeouts

Navigation	 System → Connectivity → Ethernet → TCPConnecTimeout
User interface	0 to 255
Factory setting	0

Number of TCP connections closed

Navigation	 System → Connectivity → Ethernet → TCPConnect.close
User interface	0 to 255
Factory setting	0

Number of received TCP packets

Navigation	 System → Connectivity → Ethernet → No.RX TCP Packet
User interface	Positive integer
Factory setting	0

TCP sent packet number

Navigation	 System → Connectivity → Ethernet → TCP TX PacketNo.
User interface	Positive integer
Factory setting	0

Number of TCP failed received packets

Navigation	 System → Connectivity → Ethernet → TCPFailRXPackages
User interface	Positive integer
Factory setting	0

Reset Ethernet diagnostics



Navigation	 System → Connectivity → Ethernet → ResetEthernDiag.
Selection	<ul style="list-style-type: none"> ■ Cancel ■ Reset
Factory setting	Cancel

Available UDP ports

Navigation	 System → Connectivity → Ethernet → Avail. UDP ports
User interface	Positive integer
Factory setting	0

UDP received packet number

Navigation	 System → Connectivity → Ethernet → UDP RX PacketNo.
User interface	Positive integer
Factory setting	0

UDP sent packet number

Navigation	 System → Connectivity → Ethernet → UDP TX PacketNo.
User interface	Positive integer
Factory setting	0

Number of UDP failed received packets

Navigation	 System → Connectivity → Ethernet → UDPFailRXpackets
User interface	Positive integer
Factory setting	0

Reset Ethernet diagnostics



Navigation	 System → Connectivity → Ethernet → ResetEthernDiag.
Selection	<ul style="list-style-type: none"> ■ Cancel ■ Reset
Factory setting	Cancel

3.4.4 Display

Navigation  System → Display

Language

Navigation	 System → Display → Language
Prerequisite	A local display is provided.
Description	Use this function to select the configured language on the local display.
Selection	<ul style="list-style-type: none"> ■ English ■ Deutsch ■ Français ■ Español ■ Italiano ■ Nederlands ■ Portuguesa ■ Polski ■ русский язык (Russian) ■ Svenska ■ Türkçe ■ 中文 (Chinese) ■ 日本語 (Japanese) ■ 한국어 (Korean)

- Bahasa Indonesia
- tiếng Việt (Vietnamese)
- čeština (Czech)

Factory setting English (alternatively, the ordered language is preset in the device)

Format display

Navigation  System → Display → Format display

Description Select how measured values are shown on the display

Selection

- 1 value, max. size
- 2 values

Factory setting 1 value, max. size

Value 1 display

Navigation  System → Display → Value 1 display

Description Select the measured value that is shown on the local display

Selection

- Pressure
- Scaled variable
- Sensor temperature

Factory setting Pressure

Value 2 ... 4 display

Navigation  System → Display → Value 2 ... 4 display

Description Select the measured value that is shown on the local display

Selection

- None
- Pressure
- Scaled variable
- Sensor temperature

Factory setting None

Contrast display

Navigation	 System → Display → Contrast display
Description	Adjust local display contrast setting to ambient conditions (e.g. lighting or reading angle)
User entry	20 to 80 %
Factory setting	30 %

3.4.5 Date/time

Navigation  System → Date/time

Date/time

Navigation	 System → Date/time → Date/time
Description	Displays the date and time entered.
User interface	Character string comprising numbers, letters and special characters
Factory setting	2025-01-01 00:00:00

Time zone



Navigation	 System → Date/time → Time zone
Description	Select the time zone. Every time the time zone is changed, a logbook entry is created.

Selection

Other units

- UTC-12:00
- UTC-11:00
- UTC-10:00
- UTC-09:30
- UTC-09:00
- UTC-08:00
- UTC-07:00
- UTC-06:00
- UTC-05:00
- UTC-04:00
- UTC-03:30
- UTC-03:00
- UTC-02:30
- UTC-02:00
- UTC-01:00
- UTC 00:00
- UTC+01:00
- UTC+02:00
- UTC+03:00
- UTC+03:30
- UTC+04:00
- UTC+04:30
- UTC+05:00
- UTC+05:30
- UTC+05:45
- UTC+06:00
- UTC+06:30
- UTC+07:00
- UTC+08:00
- UTC+08:45
- UTC+09:00
- UTC+09:30
- UTC+10:00
- UTC+10:30
- UTC+11:00
- UTC+12:00
- UTC+12:45
- UTC+13:00
- UTC+13:45
- UTC+14:00

Factory setting

UTC 00:00

Enable NTP



Navigation

System → Date/time → Enable NTP

Selection

- No
- Yes

Factory setting

No

NTP server address



Navigation	 System → Date/time → NTP server add.
Description	IP address of the NTP server.
User entry	Character string comprising numbers, letters and special characters (64)
Factory setting	192.168.1.1

Clock synchronized

Navigation	  System → Date/time → Clock synch.
Description	Timestamp of last synchronization with an NTP server.
User interface	Character string comprising numbers, letters and special characters
Factory setting	-----

3.4.6 Geolocation

Navigation  System → Geolocation

Location description



Navigation	  System → Geolocation → Location descr.
Description	Enter a description for the location
User entry	Character string comprising numbers, letters and special characters (32)
Factory setting	somewhere

Longitude



Navigation	  System → Geolocation → Longitude
Description	Enter the longitude.
User entry	-180 to 180 °

Factory setting 0 °

Latitude 

Navigation   System → Geolocation → Latitude

Description Enter latitude

User entry -90 to 90 °

Factory setting 0 °

Altitude 

Navigation   System → Geolocation → Altitude

Description Enter altitude

User entry Signed floating-point number

Factory setting 0 m

3.4.7 Information

Navigation   System → Information

Device name

Navigation   System → Information → Device name

Description Use this function to display the device name. It can also be found on the nameplate.

User interface Character string comprising numbers, letters and special characters

Factory setting 5xB/7xB

Manufacturer	
Navigation	 System → Information → Manufacturer
User interface	Character string comprising numbers, letters and special characters
Factory setting	Endress+Hauser
Serial number	
Navigation	 System → Information → Serial number
Description	The serial number is a unique alphanumeric code identifying the device. It is printed on the nameplate. In combination with the Operations app it allows to access all device related documentation.
User interface	Character string comprising numbers, letters and special characters
Order code 	
Navigation	 System → Information → Order code
Description	Shows the device order code.
User interface	Character string comprising numbers, letters and special characters
Factory setting	- none -
Additional information	Access: <ul style="list-style-type: none"> ■ Read access: Operator ■ Write access: Expert
Firmware version	
Navigation	 System → Information → Firmware version
Description	Displays the device firmware version installed.
User interface	Character string comprising numbers, letters and special characters

Hardware version

Navigation	  System → Information → Hardware version
User interface	Character string comprising numbers, letters and special characters

Extended order code 1 ... 3



Navigation	 System → Information → Ext. order cd. 1
Description	The extended order code is an alphanumeric code containing all information to identify the device and its options.
User interface	Character string comprising numbers, letters and special characters
Additional information	Access: <ul style="list-style-type: none"> ■ Read access: Operator ■ Write access: Expert

XML build number

Navigation	  System → Information → XML build no.
User interface	Positive integer
Additional information	Access: <ul style="list-style-type: none"> ■ Read access: Expert ■ Write access: -

Checksum

Navigation	  System → Information → Checksum
Description	Checksum for Firmware version.
User interface	Positive integer

3.4.8 Additional information

Navigation  System → Additional info

Sensor

Navigation  System → Additional info → Sensor

Serial number

Navigation	 System → Additional info → Sensor → Serial number
Description	Shows the serial number of the module.
User interface	Character string comprising numbers, letters and special characters
Additional information	Access: <ul style="list-style-type: none"> ■ Read access: Expert ■ Write access: -

Firmware version

Navigation	 System → Additional info → Sensor → Firmware version
Description	Displays the firmware version of the module.
User interface	Positive integer
Additional information	Access: <ul style="list-style-type: none"> ■ Read access: Expert ■ Write access: -

Hardware version

Navigation	 System → Additional info → Sensor → Hardware version
Description	Displays the hardware version of the module.
User interface	Character string comprising numbers, letters and special characters
Additional information	Access: <ul style="list-style-type: none"> ■ Read access: Expert ■ Write access: -

Checksum

Navigation  System → Additional info → Sensor → Checksum

Description Checksum for Firmware version.

User interface Positive integer

Factory setting 0

Additional information **Access:**
 ■ Read access: Expert
 ■ Write access: -

Electronics

Navigation  System → Additional info → Electronics

Serial number

Navigation  System → Additional info → Electronics → Serial number

Description Shows the serial number of the module.

User interface Character string comprising numbers, letters and special characters

Additional information **Access:**
 ■ Read access: Expert
 ■ Write access: -

Firmware version

Navigation  System → Additional info → Electronics → Firmware version

Description Displays the firmware version of the module.

User interface Positive integer

Additional information **Access:**
 ■ Read access: Expert
 ■ Write access: -

Build no. software

Navigation	 System → Additional info → Electronics → Build no. softw.
Description	Shows the build number of the module firmware.
User interface	0 to 65 535
Additional information	Access: <ul style="list-style-type: none"> ■ Read access: Expert ■ Write access: -

Hardware version

Navigation	 System → Additional info → Electronics → Hardware version
Description	Displays the hardware version of the module.
User interface	Character string comprising numbers, letters and special characters
Additional information	Access: <ul style="list-style-type: none"> ■ Read access: Expert ■ Write access: -

Display/Bluetooth

Navigation  System → Additional info → Displ./Bluetooth

Serial number

Navigation	 System → Additional info → Displ./Bluetooth → Serial number
Description	Shows the serial number of the module.
User interface	Character string comprising numbers, letters and special characters
Additional information	Access: <ul style="list-style-type: none"> ■ Read access: Expert ■ Write access: -

Firmware version

Navigation	 System → Additional info → Displ./Bluetooth → Firmware version
Description	Displays the firmware version of the module.
User interface	Positive integer
Additional information	Access: <ul style="list-style-type: none">■ Read access: Expert■ Write access: -

Build no. software

Navigation	 System → Additional info → Displ./Bluetooth → Build no. softw.
Description	Shows the build number of the module firmware.
User interface	0 to 65 535
Additional information	Access: <ul style="list-style-type: none">■ Read access: Expert■ Write access: -

Hardware version

Navigation	 System → Additional info → Displ./Bluetooth → Hardware version
Description	Displays the hardware version of the module.
User interface	Character string comprising numbers, letters and special characters
Additional information	Access: <ul style="list-style-type: none">■ Read access: Expert■ Write access: -

3.4.9 Software configuration

Navigation  System → Softw. config.

CRC device configuration

Navigation	 System → Softw. config. → CRC device conf.
Description	CRC device configuration based on current settings of safety relevant parameters. The CRC device configuration is unique and can be used to detect changes in safety relevant parameter settings.
User interface	0 to 65 535
Factory setting	65 535

Activate SW option

Navigation	 System → Softw. config. → Activate SW opt.
Description	Enter the application package code or code of another re-ordered functionality to enable it
User entry	Positive integer

Software option overview

Navigation	 System → Softw. config. → SW option overv.
Description	Shows all enabled software options
User interface	<ul style="list-style-type: none"> ■ Heartbeat Verification ■ Heartbeat Monitoring
Factory setting	T_HeartbeatVerificationT_HeartbeatMonitoring



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