GP011830/09/EN/02.25-00 71709027 2025-03-28 Valid as of version 01.01.zz (Device firmware)

# Description of Device Parameters **F2058**

4-20 mA temperature transmitter



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# 1 About this document

#### 1.1 Document function

The document is part of the Operating Instructions and serves as a reference for parameters, providing a detailed explanation of each individual parameter of the operating menus.

It is used to perform tasks that require detailed knowledge of the function of the device:

- Measurement is perfectly matched to the process conditions in each case
- Detailed configuration of the communication interface
- Error diagnostics

#### 1.2 Target group

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

#### 1.3 Using this document

#### 1.3.1 Symbols for certain types of information

Symbol	Meaning
i	Tip Indicates additional information.
	Reference to documentation
	Reference to page
	Reference to graphic
A0028662	Operation via local display
A0028663	Operation via operating tool
A0028665	Write-protected parameter

#### 1.3.2 Information on the document structure

The parameters of all the operating menus are described in this document.

**Standard** mode, which guides the user through all the device parameters that are needed for basic commissioning and contains all the current measured values and parameters for the unique identification of the device:

- Basic settings
- Device information

**Expert** mode, which guides the user automatically through all the device parameters that are needed for complete commissioning:

- Diagnostics menu (→ 🗎 15)
- Application menu (→ 🖺 17)
- **System** menu (→ 🗎 26)

Complete parameter name

Write-protected parameter = 🖻

#### 1.3.3 Structure of a parameter description

The individual parts of a parameter description are described in the following section:

Navigation		Navigation path to the parameter via the operating tool The names of the menus, submenus and parameters are abbreviated to the form in which they appear on the display and in the operating tool.
Prerequisite	The pa	rameter is only available under these specific conditions
Description	Descrip	otion of the parameter function
Selection	List of • Opti • Opti	the individual options for the parameter on 1 on 2
User entry	Input r	ange for the parameter
User interface	Display	value/data for the parameter
Factory setting	Defaul	t setting ex works (if not explicitly selected)
Additional information	Additio On i On c On t On t	onal explanations (e.g. in examples): ndividual options lisplay value/data he input range he factory setting

• On the parameter function

#### 1.4 Documentation

The Description of Device Parameters is part of the following documentation:

Measuring instrument F2058\_OTMT31: BA022220

# 2 Overview of the operating menu

The following table provides an overview of the menu structure of the operating menu and its parameters. The page reference indicates where the associated description of the submenu or parameter can be found.

Basic setup		→ 🖺 7
Device information	-	→ 🗎 13
Expert	-	→ 🗎 15

# 3 "Basic setup" menu

Navigation

Basic setup

Basic setup			
	Device tag	]	→ 🗎 7
	Unit	]	→ 🖺 8
	Sensor type	]	→ 🖺 8
	Connection type		→ 🗎 9
	2-wire compensation	]	→ 🗎 9
	Reference junction	]	→ 🖺 9
	RJ preset value	]	→ 🖺 10
	Lower range value output	]	→ 🖺 10
	Upper range value output	]	→ 🖺 10
	Failure mode	]	→ 🖺 11
	Call./v. Dusen coeff. R0	]	→ 🖺 11
	Call./v. Dusen coeff. A	]	→ 🖺 11
	Call./v. Dusen coeff. B	]	→ 🖺 11
	Call./v. Dusen coeff. C	]	→ 🗎 12
	Sensor lower limit	]	→ 🗎 12
	Sensor upper limit	]	→ 🗎 12
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Navigation

 $\square$  Basic setup  $\rightarrow$  Device tag

Description

Displays the name for the measuring point.

Unit	8
Navigation	Basic setup $\rightarrow$ Unit
Description	Selection of the unit for all measured values.
Selection	SI units ■ °C ■ K Custom-specific units °F
Factory setting	°C
Sensor type	8
Navigation	Basic setup $\rightarrow$ Sensor type
Description	Use this function to select the sensor type for the sensor input. For HART sensors, ensure that the HART address of the sensor to be selected is set to '0'. Additional information:
Selection	Please observe the terminal assignment when connecting the sensor. Pt100 IEC60751, a=0.00385 (1) Pt100 JIS C1604, a=0.003916 (5) Type A (W5Re-W20Re) IEC60584 (30) Type B (PtRh30-PtRh6) IEC60584 (31) Type C (W5Re-W26Re) IEC60584 (32) Type D (W3Re-W25Re) ASTM E988-96 (33) Type E (NiCr-CuNi) IEC60584 (34) Type J (Fe-CuNi) IEC60584 (35) Type K (NiCr-Ni) IEC60584 (36) Type N (NiCrSi-NiSi) IEC60584 (37) Type R (PtRh13-Pt) IEC60584 (38) Type S (PtRh10-Pt) IEC60584 (39) Type L (Fe-CuNi) IEC60584 (40) Type L (Fe-CuNi) IEC60584 (40) Type L (Fe-CuNi) IEC60584 (40) Type L (Fe-CuNi) IEC60584 (9) RTD Platinum (Callendar/van Dusen)
Factory setting	Depending on the device configuration: • Pt100 IEC60751, a=0.00385 (1) • Type K (NiCr-Ni) IEC60584 (36)

Connection type		
Navigation	Basic setup $\rightarrow$ Connection type	
Description	Use this function to select the connection type for the sensor.	
Selection	<ul> <li>2-wire</li> <li>3-wire</li> <li>4-wire</li> </ul>	
Factory setting	4- wire	

2-wire compensation		Ê
Navigation	Basic setup $\rightarrow$ 2-wire compensation	
Description	Use this function to specify the resistance value for two-wire compensation in RTDs.	
User entry	0.0 to 30.0 Ohm	
Factory setting	0 Ohm	
Reference junction		

Navigation	$\square$ Basic setup $\rightarrow$ Reference junction
Prerequisite	A thermocouple (TC) sensor must be selected as the sensor type.
Description	Use this function to select reference junction measurement for temperature compensation of thermocouples (TC).
	Info:
	- If "Fixed value" is selected, the compensation value is specified via the RJ preset value parameter.
	- If "Measured value ext. sensor" is selected, an RTD must also be connected in accordance with the specifications in the operating manual.
Selection	<ul> <li>Internal measurement</li> <li>Fixed Value</li> <li>Measured value ext. sensor</li> </ul>
Factory setting	Internal measurement

A

RJ preset value		A
Navigation	Basic setup $\rightarrow$ RJ preset value	
Prerequisite	In the <b>Reference junction</b> parameter ( $\rightarrow \square$ 9), the <b>Fixed Value</b> option must be set.	
Description	The Fixed value parameter must be set if the Reference junction n option is selected.	
User entry	-50.0 to 360.0	
Factory setting	0.0	

Lower range value output		Â
Navigation	Basic setup $\rightarrow$ Lower range value output	
Description	Use this function to assign a measured value to the current value 4 mA.	
	Additional information:	
	The set point that can be set depends on the sensor type used in the Sensor type parameter.	
User entry	–50 000.0 to 50 000.0 °C	
Factory setting	0.0	

#### Upper range value output

Navigation	□ Basic setup $\rightarrow$ Upper range value output
Description	Use this function to assign a measured value to the current value 20 mA.
	Additional information: The set point that can be set depends on the sensor type used in the Sensor type parameter.
User entry	–50 000.0 to 50 000.0 °C
Factory setting	100

Failure mode		
Navigation	□ Basic setup $\rightarrow$ Failure mode	
Description	Use this function to select the signal on alarm level of the current output in the event of an error.	
Selection	<ul><li>Max.</li><li>Min.</li></ul>	
Factory setting	Min.	

Call./v. Dusen coeff. R0		
Navigation	Basic setup $\rightarrow$ Call./v. Dusen coeff. RO	
Description	Use this function to set the RO value for sensor linearization with the Callendar/Van Dusen polynomial.	
User entry	10.0 to 4 000.0 Ohm	
Factory setting	100 Ohm	

Call./v. Dusen coeff. A		
Navigation	Basic setup $\rightarrow$ Call./v. Dusen coeff. A	
Description	Use this function to set the coefficients for sensor linearization with the Callendar/Van Dusen polynomial.	
User entry	0.003 to 0.004	
Factory setting	3.9083E-03	

Call./v. Dusen coeff. B		Ê
Navigation	Basic setup $\rightarrow$ Call./v. Dusen coeff. B	
Description	Use this function to set the coefficients for sensor linearization with the Callendar/Van Dusen polynomial.	
User entry	$-2.0 \cdot 10^{-06}$ to $2.0 \cdot 10^{-06}$	
Factory setting	-5.775E-07	

#### "Basic setup" menu

Factory setting

Call./v. Dusen coeff. C		£
Navigation	Basic setup $\rightarrow$ Call./v. Dusen coeff. C	
Description	Use this function to set the coefficients for sensor linearization with the Callendar/Var Dusen polynomial.	1
User entry	$-1.0 \cdot 10^{-09}$ to $1.0 \cdot 10^{-09}$	
Factory setting	-4.183E-12	
Sensor lower limit		Â
Navigation	Basic setup $\rightarrow$ Sensor lower limit	
Prerequisite	The RTD platinum (Callendar/Van Dusen) option is enabled in the Sensor type parameter	
Description	Use this function to set the lower calculation limit for special sensor linearization.	
User entry	Depends on the <b>sensor type</b> selected	

Sensor upper limit		A
Navigation	Basic setup $\rightarrow$ Sensor upper limit	
Prerequisite	The RTD platinum (Callendar/Van Dusen) option is enabled in the Sensor type parame	ter
Description	Use this function to set the upper calculation limit for special sensor linearization.	
User entry	Depends on the <b>sensor type</b> selected	
Factory setting	Depends on the <b>sensor type</b> selected	

Depends on the **sensor type** selected

### 4 "Device information" menu

Navigation	Device information	
Device information	on	
	Serial number	
	Firmware version	
	Output current	
	Percent of range	
	Sensor value	
	Device temperature	

#### Serial number Navigation Device information $\rightarrow$ Serial number Description Displays the serial number of the measuring device. The serial number can be used to identify the measuring device and to retrieve further information via the Device Viewer or Operations app, such as the related documentation. Additional information: The serial number can also be found on the nameplate of the sensor and transmitter. User interface Character string comprising numbers, letters and special characters Firmware version Device information $\rightarrow$ Firmware version Navigation Description Use this function to view the device firmware version installed.

User interface Character string comprising numbers, letters and special characters

"Device	information"	menu
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Output current		
Navigation	□ Device information $\rightarrow$ Output current	
Description	Use this function to view the calculated output current in mA.	
User interface	3.58 to 23.0 mA	
Percent of range		
Navigation	□ Device information $\rightarrow$ Percent of range	
Description	Use this function to display the measured value in % of the span.	
User interface	Signed floating-point number	
Sensor value		
Navigation	$\Box  \text{Device information} \rightarrow \text{Sensor value}$	
Description	Use this function to display the current measured value at the sensor input.	
User interface	Signed floating-point number	
Device temperature		
Navigation	□ Device information $\rightarrow$ Device temperature	
Description	Use this function to display the current electronics temperature.	
User interface	Signed floating-point number	

# 5 "Expert" menu

Navigation	🗎 Expert	
Expert		
	► Diagnostics	→ 🗎 15
	► Application	→ 🗎 17
	► System	→ 🗎 26

## 5.1 "Diagnostics" submenu

Troubleshooting and preventive maintenance – settings for device behavior during process and device events as well as assistance and measures for diagnostic purposes.

Navigation	Export > Diagnostics
πανιγατισπ	Expert / Diagnostics

► Diagnostics			
	Active diagnosti	cs	→ 🗎 15
		Actual diagnostics	→ 🗎 16
		Previous diagnostics	→ 🗎 16
	Simulation		→ 🗎 16
		Current output simulation	→ 🗎 16
		Current output value	→ 🗎 17

#### 5.1.1 "Active diagnostics" submenu

Navigation $\Box$ Expert  $\rightarrow$  Diagnostics  $\rightarrow$  Active diagnostics

► Active diagnostics	
Actual diagnostics	→ 🗎 16
Previous diagnostics	) → 🗎 16

Actual diagnostics		
Navigation	□ Expert → Diagnostics → Active diagnostics → Actual diagnostics	
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.	
<b>User interface</b> Symbol for diagnostic behavior, diagnostic code and short message		
Previous diagnostics		
5		
Navigation	$ \blacksquare  \text{Expert} \rightarrow \text{Diagnostics} \rightarrow \text{Active diagnostics} \rightarrow \text{Previous diagnostics} $	
Description	Displays the diagnostic message for the last diagnostic event that has ended.	

User interface Symbol for diagnostic behavior, diagnostic code and short message

#### 5.1.2 "Simulation" submenu

Navigation	Expert $\rightarrow$ Diagnostics $\rightarrow$ Simulation



Current output simulation	8
Navigation	■ Expert → Diagnostics → Simulation → Current output simulation
Description	Use this function to switch simulation of the current output on and off. While simulation is in progress the display a diagnostics message of the "function check" category (C).
Selection	<ul><li>Off</li><li>On</li></ul>
Factory setting	Off

Current output value		
Navigation	$ \qquad \qquad$	
Description	Use this function to set a current value for the simulation. In this way, users can verify the correct adjustment of the current output and the correct function of downstream switching units.	
User entry	3.58 to 23 mA	
Factory setting	3.58 mA	

# 5.2 "Application" submenu

Targeted optimization to the application – comprehensive device settings from sensor technology to system integration for optimum application adaptation.

*Navigation*  $\square$  Expert  $\rightarrow$  Application

► Application		]	
	► Measured value	S	→ 🗎 18
		Sensor value	→ 🗎 18
		Output current	→ ● 19
		Percent of range	→ 🗎 19
		Device temperature	→ 🗎 19
	► Sensor		→ 🗎 19
		Unit	→ 🗎 20
		Sensor type	→ 🗎 20
		Connection type	→ 🗎 21
		2-wire compensation	→ 🗎 2.1
		Reference junction	→ 🖹 22
			→ 🖹 22
		Sensor offset	→ 🗎 22



#### 5.2.1 "Measured values" submenu

Navigation

Expert  $\rightarrow$  Application  $\rightarrow$  Measured values

► Measured values		
Sensor value	] → 🗎 18	
Output current	] → 🗎 19	
Percent of range	→ 🗎 19	
Device temperature	] → 🗎 19	

# Sensor value Navigation □ Expert → Application → Measured values → Sensor value Description Use this function to display the current measured value at the sensor input.

User interface	terface Signed floating-point number	
Output current		
Navigation	□ Expert → Application → Measured values → Output current	
Description	Use this function to view the calculated output current in mA.	
User interface	3.58 to 23 mA	
Percent of range		
Navigation	□ Expert $\rightarrow$ Application $\rightarrow$ Measured values $\rightarrow$ Percent of range	
Description	Use this function to display the measured value in % of the span.	
User interface	nterface Signed floating-point number	
Device temperature		
Navigation	□ Expert $\rightarrow$ Application $\rightarrow$ Measured values $\rightarrow$ Device temperature	
Description	Use this function to display the current electronics temperature.	
User interface	face Signed floating-point number	

#### 5.2.2 "Sensor" submenu

Navigation	$ \blacksquare  \text{Expert} \rightarrow \text{Application} \rightarrow \text{Sensor} $	
► Sensor		
	Unit	→ 🗎 20
	Sensor type	→ 🗎 20
	Connection type	→ 🗎 21
	2-wire compensation	→ 🗎 21

A

Reference junction	→ 🗎 22
RJ preset value	→ 🗎 22
Sensor offset	→ 🗎 22
Damping	→ 🗎 23
Call./v. Dusen coeff. RO	→ 🗎 23
Call./v. Dusen coeff. A	→ 🗎 23
Call./v. Dusen coeff. B	→ 🗎 23
Call./v. Dusen coeff. C	→ 🗎 24
Sensor lower limit	→ 🗎 24
Sensor upper limit	→ 🗎 24

#### Unit

Navigation	$ \qquad \qquad$
Description	Selection of the unit for all measured values.
Selection	SI units • °C • K
	Custom-specific units °F
Factory setting	°C

# Sensor type Image: Sensor type Navigation Image: Expert → Application → Sensor → Sensor type Description Use this function to select the sensor type for the sensor input. For HART sensors, ensure that the HART address of the sensor to be selected is set to '0'.

Additional information:

Please observe the terminal assignment when connecting the sensor.

Selection	<ul> <li>Pt100 IEC60751, a=0.00385 (1)</li> <li>Pt1000 IEC60751, a=0.00385 (4)</li> <li>Pt100 JIS C1604, a=0.003916 (5)</li> <li>Type A (W5Re-W20Re) IEC60584 (30)</li> <li>Type B (PtRh30-PtRh6) IEC60584 (31)</li> <li>Type C (W5Re-W26Re) IEC60584 (32)</li> <li>Type D (W3Re-W25Re) ASTM E988-96 (33)</li> <li>Type E (NiCr-CuNi) IEC60584 (34)</li> <li>Type J (Fe-CuNi) IEC60584 (35)</li> <li>Type K (NiCr-Ni) IEC60584 (36)</li> <li>Type N (NiCrSi-NiSi) IEC60584 (37)</li> <li>Type R (PtRh13-Pt) IEC60584 (39)</li> <li>Type T (Cu-CuNi) IEC60584 (40)</li> <li>Type L (Fe-CuNi) DIN43710 (41)</li> <li>Pt100 GOST 6651-94, a=0.00391 (9)</li> <li>RTD Platinum (Callendar/van Dusen)</li> </ul>	
Factory setting	Depending on the device configuration: <ul> <li>Pt100 IEC60751, a=0.00385 (1)</li> <li>Type K (NiCr-Ni) IEC60584 (36)</li> </ul>	

Connection type		Ê
Navigation	$ \qquad \qquad$	
Description	Use this function to select the connection type for the sensor.	
Selection	<ul> <li>2- wire</li> <li>3- wire</li> <li>4- wire</li> </ul>	
Factory setting	4- wire	

2-wire compensation		Â
Navigation	Expert $\rightarrow$ Application $\rightarrow$ Sensor $\rightarrow$ 2-wire compensation	
Description	Use this function to specify the resistance value for two-wire compensation in RTDs.	
User entry	0.0 to 30.0 Ohm	
Factory setting	0 Ohm	

Reference junction	6
Navigation	■ Expert → Application → Sensor → Reference junction
Prerequisite	A thermocouple (TC) sensor must be selected as the sensor type.
Description	Use this function to select reference junction measurement for temperature compensation of thermocouples (TC).
	Info:
	- If "Fixed value" is selected, the compensation value is specified via the RJ preset value parameter.
	- If "Measured value ext. sensor" is selected, an RTD must also be connected in accordance with the specifications in the operating manual.
Selection	<ul> <li>Internal measurement</li> <li>Fixed Value</li> <li>Measured value ext. sensor</li> </ul>
Factory setting	Internal measurement

RJ preset value		
Navigation	$ \qquad \qquad$	
Prerequisite	In the <b>Reference junction</b> parameter ( $\rightarrow \square$ 9), the <b>Fixed Value</b> option must be set.	
Description	The Fixed value parameter must be set if the Reference junction n option is selected.	•
User entry	-50.0 to 360.0	
Factory setting	0.0	

Sensor offset		Ê
Navigation	$ \qquad \qquad$	
Description	Use this function to set the zero point correction (offset) of the sensor measured value. The value indicated is added to the measured value.	е.
User entry	-10.0 to 10.0	
Factory setting	0	

Damping		ß
Navigation	$ \qquad \qquad$	
Description	Use this function to set the time constant for the damping of the measured value. After five times the filter time has elapsed, 99% of the actual measured value is reached.	
User entry	0 to 120 s	
Factory setting	0 s	

Call./v. Dusen coeff. R0		æ
Navigation	□ Expert → Application → Sensor → Call./v. Dusen coeff. R0	
Description	Use this function to set the RO value for sensor linearization with the Callendar/Van De polynomial.	usen
User entry	10.0 to 4000.0 Ohm	
Factory setting	100 Ohm	
Call./v. Dusen coeff. A		æ
Navigation	□ Expert → Application → Sensor → Call./v. Dusen coeff. A	
Description	Use this function to set the coefficients for sensor linearization with the Callendar/Var Dusen polynomial.	1
User entry	0.003 to 0.004	
Factory setting	3.9083E-03	
Call./v. Dusen coeff. B		

Navigation	Expert $\rightarrow$ Application $\rightarrow$ Sensor $\rightarrow$ Call./v. Dusen coeff. B
Description	Use this function to set the coefficients for sensor linearization with the Callendar/Van Dusen polynomial.
User entry	$-2.0\cdot10^{-06}$ to $2.0\cdot10^{-06}$
Factory setting	-5.775E-07

#### "Expert" menu

Call./v. Dusen coeff. C		Ê
Navigation	□ Expert → Application → Sensor → Call./v. Dusen coeff. C	
Description	Use this function to set the coefficients for sensor linearization with the Callendar/Va Dusen polynomial.	n
User entry	$-1.0\cdot10^{-09}$ to $1.0\cdot10^{-09}$	
Factory setting	-4.183E-12	

Sensor lower limit		â
Navigation	$\blacksquare  \text{Expert} \rightarrow \text{Application} \rightarrow \text{Sensor} \rightarrow \text{Sensor lower limit}$	
Prereguisite	The RTD platinum (Callendar/Van Dusen) option is enabled in the Sensor type parame	eter
Description	Use this function to set the lower calculation limit for special sensor linearization.	
User entry	Depends on the <b>sensor type</b> selected	
Factory setting	Depends on the <b>sensor type</b> selected	

Sensor upper limit		A
Navigation	■ Expert → Application → Sensor → Sensor upper limit	
Prerequisite	The RTD platinum (Callendar/Van Dusen) option is enabled in the Sensor type param	eter
Description	Use this function to set the upper calculation limit for special sensor linearization.	
User entry	Depends on the <b>sensor type</b> selected	
Factory setting	Depends on the <b>sensor type</b> selected	
Factory setting	Depends on the <b>sensor type</b> selected	

#### 5.2.3 "Current output" submenu

Navigation  $\mathsf{Expert} \to \mathsf{Application} \to \mathsf{Current} \text{ output}$ 

► Current output			
	Lower range value output	]	→ 🖺 25

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Lower range value output		
5 1		

Navigation	$ \blacksquare  \text{Expert} \rightarrow \text{Application} \rightarrow \text{Current output} \rightarrow \text{Lower range value output} $
Description	Use this function to assign a measured value to the current value 4 mA.
	Additional information: The set point that can be set depends on the sensor type used in the Sensor type parameter.
User entry	−50 000.0 to 50 000.0 °C
Factory setting	0.0

Upper range value output		Â
Navigation	■ Expert → Application → Current output → Upper range value output	
Description	Use this function to assign a measured value to the current value 20 mA.	
	Additional information: The set point that can be set depends on the sensor type used in the Sensor type parameter.	
User entry	–50 000.0 to 50 000.0 °C	
Factory setting	100	

Failure mode		
Navigation		Expert $\rightarrow$ Application $\rightarrow$ Current output $\rightarrow$ Failure mode
Description	Use ti error.	his function to select the signal on alarm level of the current output in the event of an

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Selection	<ul><li>Max.</li><li>Min.</li></ul>
Factory setting	Min.

Current trimming 4 mA			Â
Navigation		Expert $\rightarrow$ Application $\rightarrow$ Current output $\rightarrow$ Current trimming 4 mA	
Description	Use this function to set the correction value for the current output at the start of the measuring range at 4 mA.		
User entry	3.85	to 4.15 mA	
Factory setting	4 mA		

#### Current trimming 20 mA

Navigation	□ Expert → Application → Current output → Current trimming 20 mA
Description	Use this function to set the correction value for the current output at the end of the measuring range at 20 mA.
User entry	19.85 to 20.15 mA
Factory setting	20 mA

### 5.3 "System" submenu

Overall device management and security settings – management of system settings and adaption to operational requirements.

Navigation  $\square$  Expert  $\rightarrow$  System

► System	
► Device management	→ 🗎 27
Device tag	→ 🗎 27
Device reset	) → 🗎 27
Reset password	→ 🗎 28

	► User manageme	nt	$\rightarrow$	₿ 28
		Access status	$] \rightarrow$	🖹 28
		Logout	$] \rightarrow$	29
		Delete password	] →	🗎 29
		Define software write protection code	] →	₿ 29
		Enter access code	$] \rightarrow$	🖹 29
[	► Information			
		► Device	$] \rightarrow$	₿ 30

#### 5.3.1 "Device management" submenu

Navigation 🛛

Expert  $\rightarrow$  System  $\rightarrow$  Device management

► Device management				
Device tag	] → 🗎 27			
Device reset	] → 🗎 27			
Reset password	] → 🗎 28			

Device tag		
Navigation	$\Box \qquad \text{Expert} \rightarrow \text{System} \rightarrow \text{Device management} \rightarrow \text{Device tag}$	
Description	Displays the name for the measuring point.	
User entry	Character string comprising numbers, letters and special characters (32)	
Device reset		
Navigation	$ \qquad \qquad$	

**Description** Use this function to reset the device configuration to a defined state.

#### Selection

- Not active
  - Restart device
  - To factory defaults

Factory setting

Not active

Reset password	
Navigation	$ \qquad \qquad$
Prerequisite	A software write protection code has already been defined and entered. The <b>Operator</b> user role must be active.
User entry	Activate the <b>Reset password</b> button.

#### 5.3.2 "User management" submenu

Navigation

Expert  $\rightarrow$  System  $\rightarrow$  User management

► User management			
Access status	] → 🗎 28		
Logout	] → 🗎 29		
Delete password	] → 🗎 29		
Define software write protection code	] → 🗎 29		
Enter access code	] → 🗎 29		

Access status	
Navigation	Expert $\rightarrow$ System $\rightarrow$ User management $\rightarrow$ Access status
Description	Shows the access authorization to the parameters via the operating tool
User interface	<ul><li> Operator</li><li> Maintenance</li></ul>
Factory setting	Maintenance

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$ \qquad \qquad$	
A software write protection code has already been defined and entered. The <b>Maintenance</b> user role must be active.	
"Logout" will change to a lower user role.	
Activate the <b>Logout</b> button.	
	<ul> <li>Expert → System → User management → Logout</li> <li>A software write protection code has already been defined and entered.</li> <li>The Maintenance user role must be active.</li> <li>"Logout" will change to a lower user role.</li> <li>Activate the Logout button.</li> </ul>

Delete password		Ê
Navigation	□ Expert → System → User management → Delete password	
Prerequisite	A software write protection code has already been defined and entered. The <b>Maintenance</b> user role must be active.	
Description	Deletes the "Maintenance" password. After deleting, the "Operator" role will be no more available. All users have read/write access rights.	
User entry	Activate the <b>Delete password</b> .	

Define software write	protection code
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Navigation		Expert $\rightarrow$ System $\rightarrow$ User management $\rightarrow$ Define software write protection code
Description	Enter	the code to protect the device from unauthorized access
User entry	0 to 9	999
Factory setting	0	

Enter access code		
Navigation	□ Expert $\rightarrow$ System $\rightarrow$ User management $\rightarrow$ Enter access code	
Prerequisite	The <b>Operator</b> user role is active and a software write protection code has been defined.	
Description	Entering the defined code to cancel the device protection	
User entry	0 to 9 999	

Factory setting

#### 0

Navigation		$Expert \to System \to Information \to Device$	
► Information			
	► Device	e	
		Serial number	→ 🗎 30
		Order code	→ 🗎 31
		Firmware version	→ 🗎 31
		Hardware revision	→ 🗎 31
		Extended order code 1	→ 🗎 31
		Extended order code 2	→ 🗎 32
		Device name	→ 🗎 32

#### 5.3.3 "Device" submenu

#### Serial number

Navigation	$ \blacksquare  \text{Expert} \rightarrow \text{System} \rightarrow \text{Information} \rightarrow \text{Device} \rightarrow \text{Serial number} $
Description	Displays the serial number of the measuring device. The serial number can be used to identify the measuring device and to retrieve further information via the Device Viewer or Operations app, such as the related documentation.
	Additional information: The serial number can also be found on the nameplate of the sensor and transmitter.
User interface	Character string comprising numbers, letters and special characters

Order code	
Navigation	$ Expert \rightarrow System \rightarrow Information \rightarrow Device \rightarrow Order code $
Description	Displays the device order code.
	Additional information:
	The order code can be used for instance to order a replacement or spare device or to verify that the device features specified on the order form match the shipping note.
User interface	Character string comprising numbers, letters and special characters

Firmware version		
Navigation	□ Expert → System → Information → Device → Firmware version	
Description	Use this function to view the device firmware version installed.	
User interface	Character string comprising numbers, letters and special characters	

Hardware revision			
Navigation		Expert $\rightarrow$ System $\rightarrow$ Information $\rightarrow$ Device $\rightarrow$ Hardware revision	
Description	Use t	his function to display the hardware revision of the device.	
User interface	Chara	acter string comprising numbers, letters and special characters	

Extended order code	1	
Navigation	$ \blacksquare  \text{Expert} \rightarrow \text{System} \rightarrow \text{Information} \rightarrow \text{Device} \rightarrow \text{Extended order code 1} $	
Description	Displays the first, second and/or third part of the extended order code.	
	Due to character length restrictions, the extended order code is split into a maximum of 3 parameters. The extended order code indicates for each feature in the product structure the selected option, thereby uniquely identifying the device model.	
	The extended order code can also be found on the nameplate.	
User interface	Character string comprising numbers, letters and special characters	

Extended order code 2		
Navigation	□ Expert → System → Information → Device → Extended order code 2	
Description	Displays the first, second and/or third part of the extended order code.	
	Due to character length restrictions, the extended order code is split into a maximum of parameters. The extended order code indicates for each feature in the product structure the selected option, thereby uniquely identifying the device model.	
	The extended order code can also be found on the nameplate.	
User interface	Character string comprising numbers, letters and special characters	
Device name		
Navigation	$ \blacksquare  \text{Expert} \rightarrow \text{System} \rightarrow \text{Information} \rightarrow \text{Device} \rightarrow \text{Device name} $	
Description	Displays the name of the transmitter.	
	Additional information:	
	The name can also be found on the transmitter's nameplate.	
User interface	Character string comprising numbers, letters and special characters	

