

Description of Device Parameters

iTEMP TMT182B

Temperature transmitter

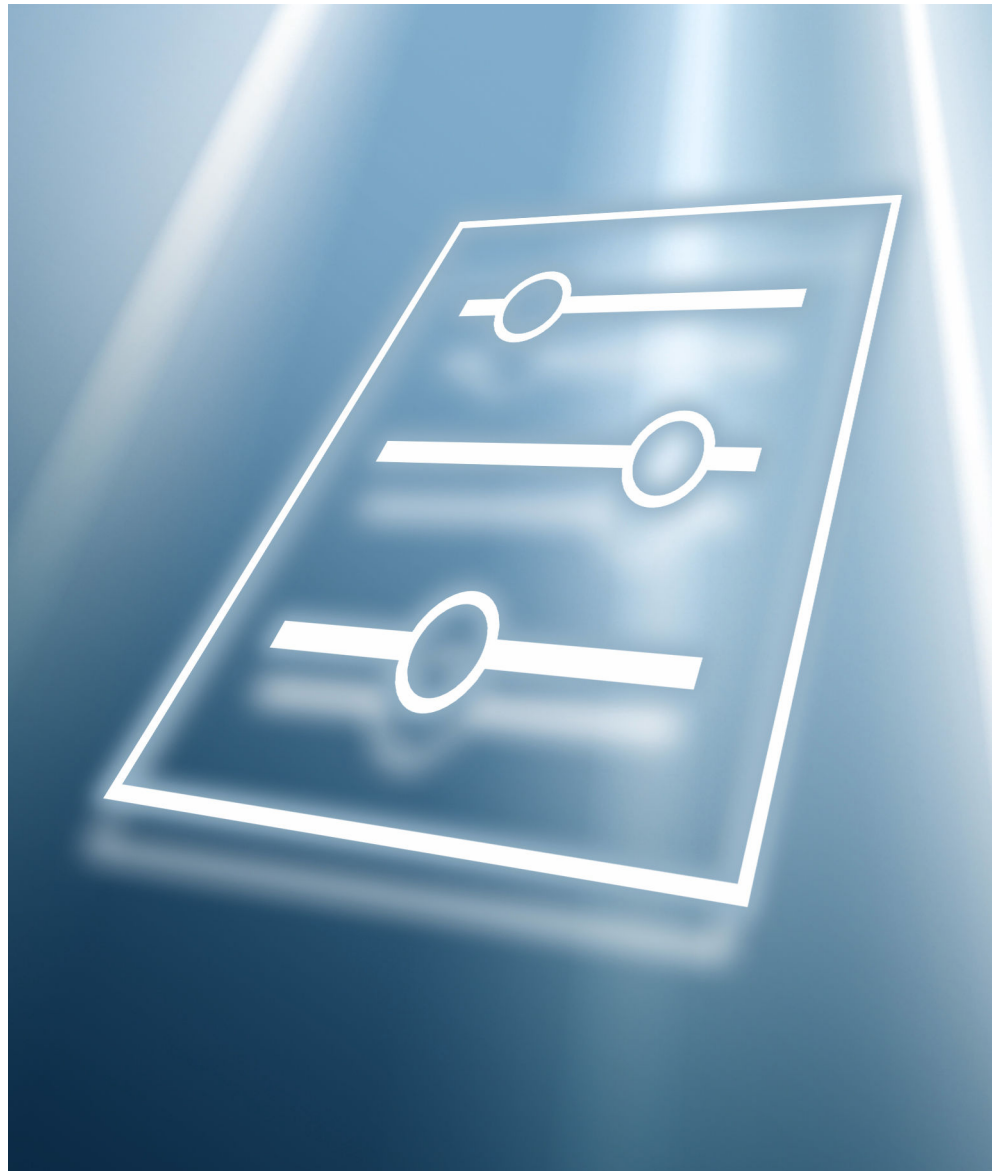


Table of contents

1	About this document	4
1.1	Document function	4
1.2	Target group	4
1.3	Using this document	4
1.4	Documentation	6
2	Overview of the operating menu	7
3	"Guidance" menu	14
3.1	"Commissioning" wizard	14
3.2	"Import / Export" submenu	21
4	"Diagnostics" menu	22
4.1	"Active diagnostics" submenu	23
4.2	"Diagnostic list" submenu	24
4.3	"Event logbook" submenu	25
4.4	"Simulation" submenu	26
4.5	"Diagnostic settings" submenu	27
4.6	"Minimum/maximum values" submenu	28
5	"Application" menu	30
5.1	"Measured values" submenu	31
5.2	"Sensor" submenu	34
5.3	"Current output " submenu	40
5.4	"HART configuration" submenu	42
6	"System" menu	43
6.1	"Device management" submenu	45
6.2	"User management" submenu	47
6.3	"Information" submenu	52

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:
















- Optimal adaptation of the measurement to difficult conditions
- Detailed configuration of the communication interface
- Error diagnostics in difficult cases








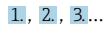


1.2 Target group

The document is aimed at specialists 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
	Permitted Procedures, processes or actions that are permitted.
	Preferred Procedures, processes or actions that are preferred.
	Forbidden Procedures, processes or actions that are forbidden.
	Tip Indicates additional information.
	Reference to documentation
	Reference to page
	Reference to graphic
	Notice or individual step to be observed
	Series of steps
	Result of a step
	Help in the event of a problem
	Visual inspection
 <small>A0028662</small>	Operation via local display
 <small>A0028663</small>	Operation via operating tool
 <small>A0028665</small>	Write-protected parameter

Symbol	Meaning	Symbol	Meaning
	Permitted Procedures, processes or actions that are permitted.		Preferred Procedures, processes or actions that are preferred.
	Forbidden Procedures, processes or actions that are forbidden.		Tip Indicates additional information.
	Reference to documentation		Reference to page
	Reference to graphic		Series of steps
	Result of a step		Visual inspection




1.3.2 Information on the document structure

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

- **Guidance** menu with the **Commissioning** wizard (→  14), which guides the user automatically through all the device parameters that are needed for commissioning
- **Diagnostics** menu (→  22)
- **Application** menu (→  30)
- **System** menu (→  43)

1.3.3 Structure of a parameter description

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

Complete parameter name	Write-protected parameter = 
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 parameter is only available under these specific conditions
Description	Description of the parameter function
Selection	List of the individual options for the parameter <ul style="list-style-type: none"> ▪ Option 1 ▪ Option 2
User entry	Input range for the parameter
User interface	Display value/data for the parameter
Factory setting	Default setting ex works (if not explicitly selected)
Additional information	Additional explanations (e.g. in examples): <ul style="list-style-type: none"> ▪ For individual options ▪ For display values/data ▪ For the input range ▪ For the factory setting ▪ For the parameter function

1.4 Documentation

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



Temperature transmitter iTEMP TMT182B: **BA02260T**

2 Overview of the operating menu

Navigation



Operating tool

Guidance	→ 14
▶ Commissioning	→ 14
▶ Device management	→ 14
Device tag	→ 14
Device name	→ 15
Serial number	→ 15
Extended order code 1 to 3	→ 15
▶ Sensor	→ 16
Unit	→ 16
Sensor type	→ 16
Connection type	→ 17
2-wire compensation	→ 17
Reference junction	→ 18
RJ preset value	→ 18
▶ Current output	→ 18
Lower range value output	→ 18
Upper range value output	→ 19
Failure mode	→ 19
▶ User management	→ 19
Access status	→ 20
New password	→ 20

Confirm new password	→ 20
Status password entry	→ 20
► Import / Export	→ 21
Create configuration report	→ 21
Save / Restore	→ 21
Diagnostics	→ 22
► Active diagnostics	→ 23
Actual diagnostics 1	→ 23
Operating time	→ 23
► Diagnostic list	→ 24
Actual diagnostics 1 to 3	→ 24
Actual diag 1 to 3 channel	→ 24
Timestamp 1 to 3	→ 24
► Event logbook	→ 25
Previous diagnostics 1 to 10	→ 25
Previous diag 1 to 10 channel	→ 25
Timestamp 1 to 10	→ 25
► Simulation	→ 26
Diagnostic event simulation	→ 26
Current output simulation	→ 26
Current output value	→ 26
Sensor simulation	→ 27
Sensor simulation value	→ 27

▶ Diagnostic settings	→ 27
Alarm delay	→ 27
Thermocouple diagnostic	→ 28
▶ Minimum/maximum values	→ 28
Sensor min value	→ 28
Sensor max value	→ 28
Reset sensor min/max values	→ 29
Device temperature min value	→ 29
Device temperature max value	→ 29
Reset device temp. min/max values	→ 29
Application	→ 30
▶ Measured values	→ 31
Sensor value	→ 31
Sensor raw value	→ 32
Output current	→ 32
Percent of range	→ 32
Device temperature	→ 32
PV	→ 32
SV	→ 33
TV	→ 33
QV	→ 33
▶ Sensor	→ 34
▶ Sensor	→ 34
Unit	→ 34
Sensor type	→ 34

Connection type	→ 35
2-wire compensation	→ 35
Reference junction	→ 36
RJ preset value	→ 36
Sensor offset	→ 36
► Linearization	→ 37
Call./v. Dusen coeff. R0	→ 37
Call./v. Dusen coeff. A	→ 37
Call./v. Dusen coeff. B	→ 37
Call./v. Dusen coeff. C	→ 38
Polynomial coeff. R0	→ 38
Polynomial coeff. A	→ 38
Polynomial coeff. B	→ 39
Sensor lower limit	→ 39
Sensor upper limit	→ 39
► Current output	→ 40
Lower range value output	→ 40
Upper range value output	→ 40
Failure mode	→ 40
Current trimming 4 mA	→ 41

Current trimming 20 mA	→ 41
Damping	→ 41
► HART configuration	→ 42
HART address	→ 42
No. of preambles	→ 42
System	→ 43
► Device management	→ 45
Device tag	→ 45
HART short tag	→ 45
Device reset	→ 45
Configuration counter	→ 46
Configuration changed	→ 46
Reset configuration changed flag	→ 46
► User management	→ 47
► User management	→ 47
Access status	→ 47
► Delete password	→ 48
Status password entry	→ 48
► Enter password	→ 48
Password	→ 48
Status password entry	→ 48
► Define password	→ 49
New password	→ 49
Confirm new password	→ 49
Status password entry	→ 50









▶ Recover password	→ 50
Reset password	→ 50
Status password entry	→ 50
▶ Change password	→ 51
Old password	→ 51
New password	→ 51
Confirm new password	→ 51
Status password entry	→ 52
▶ Information	→ 52
▶ Device	→ 52
Serial number	→ 52
Order code	→ 53
Firmware version	→ 53
Hardware revision	→ 53
Extended order code 1	→ 53
Device name	→ 54
Manufacturer	→ 54
▶ HART info	→ 54
Device type	→ 54
Device revision	→ 55
HART revision	→ 55
HART descriptor	→ 55
HART message	→ 55
Hardware revision	→ 56
Software revision	→ 56

HART date code	→ 56
Manufacturer ID	→ 56
Device ID	→ 56

3 "Guidance" menu

Main functions for use – from fast and safe commissioning to guided support during operation.


Navigation  Guidance

Guidance	
▶ Commissioning	→  14
▶ Device management	→  14
▶ Sensor	→  16
▶ Current output	→  18
▶ User management	→  19
▶ Import / Export	→  21
Create configuration report	→  21
Save / Restore	→  21


3.1 "Commissioning" wizard

Navigation  Guidance → Commissioning

3.1.1 "Device management" wizard


Navigation  Guidance → Commissioning → Device management


Device tag


Navigation  Guidance → Commissioning → Device management → Device tag

Description Displays the name for the measuring point.

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



Device name	
Navigation	 Guidance → Commissioning → Device management → Device name
Description	<p>Displays the name of the transmitter.</p> <p>Additional information: The name can also be found on the transmitter's nameplate.</p>
User interface	Character string comprising numbers, letters and special characters
Factory setting	iTEMP TMT182B



Serial number	
Navigation	 Guidance → Commissioning → Device management → Serial number
Description	<p>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.</p> <p>Additional information: The serial number can also be found on the nameplate of the sensor and transmitter.</p>
User interface	Character string comprising numbers, letters and special characters

Extended order code 1 to 3	
Navigation	 Guidance → Commissioning → Device management → Extended order code 1 to 3
Description	<p>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.</p> <p>Additional information: The extended order code can also be found on the nameplate.</p>
User interface	Character string comprising numbers, letters and special characters

3.1.2 "Sensor" wizard

Navigation  Guidance → Commissioning → Sensor


Unit	
Navigation	 Guidance → Commissioning → Sensor → Unit
Description	Selection of the unit for all measured values.
Selection	<p><i>SI units</i></p> <ul style="list-style-type: none"> ■ °C ■ K ■ Ohm <p><i>Custom-specific units</i></p> <ul style="list-style-type: none"> ■ °F ■ mV
Factory setting	°C

Sensor type	
Navigation	 Guidance → Commissioning → Sensor → Sensor type
Description	<p>Use this function to select the sensor type for the sensor input.</p> <p>Info:</p> <p>Please observe the terminal assignment when connecting the sensor.</p>
Selection	<ul style="list-style-type: none"> ■ Pt100 IEC60751, a=0.00385 (1) ■ Pt200 IEC60751, a=0.00385 (2) ■ Pt500 IEC60751, a=0.00385 (3) ■ Pt1000 IEC60751, a=0.00385 (4) ■ Pt100 JIS C1604, a=0.003916 (5) ■ Ni100 DIN 43760, a=0.00618 (6) ■ Ni120 DIN 43760, a=0.00618 (7) ■ Ni100 OIML/GOST 6651-09, a=0.00617 (12) ■ Ni120 OIML/GOST 6651-09, a=0.00617 (13) ■ 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 T (Cu-CuNi) IEC60584 (40) ■ Type L (Fe-CuNi) DIN43710 (41)

- Type L (NiCr-CuNi) GOST R8.585-01 (43)
- Type U (Cu-CuNi) DIN43710 (42)
- Pt50 GOST 6651-94, a=0.00391 (8)
- Pt100 GOST 6651-94, a=0.00391 (9)
- Cu50 GOST 6651-09, a=0.00428 (10)
- Cu100 OIML/GOST 6651-09, a=0.00428 (11)
- Cu50 OIML R84:2003, a=0.00428 (10)
- Cu50 OIML/GOST 6651-94, a=0,00426 (14)
- RTD Platinum (Callendar/van Dusen)
- RTD Poly Nickel (OIML R84, GOST 6651-94)
- RTD Polynomial Copper (OIML R84:2003)
- 10...400 Ohm
- 10...2000 Ohm
- -20...100 mV

Factory setting Pt100 IEC60751, a=0.00385 (1)

Connection type

Navigation  Guidance → Commissioning → Sensor → Connection type

Prerequisite An RTD sensor or a resistance transmitter must be specified as the sensor type.


Description Use this function to select the connection type for the sensor.

Selection

- 2- wire
- 3- wire
- 4- wire

Factory setting 4-wire

2-wire compensation


Navigation  Guidance → Commissioning → Sensor → 2-wire compensation


Prerequisite An RTD sensor or a resistance transmitter with a **2-wire** connection type must be specified as the sensor type.

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 0.0 Ohm


Reference junction


Navigation	 Guidance → Commissioning → 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). Additional information: If "Fixed value" is selected, the compensation value is specified via the RJ preset value parameter.
Selection	<ul style="list-style-type: none"> ■ Internal measurement ■ Fixed Value
Factory setting	Internal measurement


RJ preset value


Navigation	 Guidance → Commissioning → Sensor → RJ preset value
Prerequisite	The Fixed value parameter must be set if the Reference junction option is selected.
Description	The Fixed value parameter must be set if the Reference junction n option is selected.
User entry	-58.0 to 360.0
Factory setting	0.0

3.1.3 "Current output " wizard

Navigation  Guidance → Commissioning → Current output → Current output


Lower range value output


Navigation	 Guidance → Commissioning → Current output → 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

Factory setting 0.0

Upper range value output

Navigation  Guidance → Commissioning → 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

Factory setting 100.0

Failure mode

Navigation  Guidance → Commissioning → Current output → Failure mode


Description Use this function to select the signal on alarm level of the current output in the event of an error.


Selection

- Max.
- Min.


Factory setting Min.

3.1.4 "User management" wizard


 The initial password can be assigned via user management during commissioning. Each additional change to user management (delete password, change password, etc.) is implemented in the menu: System → User management

Navigation  Guidance → Commissioning → User management


Access status

Navigation	 Guidance → Commissioning → User management → Access status
Description	If additional write protection is active, this restricts the current access authorization even further.
User interface	<ul style="list-style-type: none"> ■ Operator ■ Maintenance
Factory setting	Maintenance


New password

Navigation	 Guidance → Commissioning → User management → New password
Description	<p>If the factory setting is not changed, the device works without write-protection, using userrole 'Maintenance'. The configuration data of the device can always be modified.</p> <p>Once the password has been defined, write-protected devices can only be set to maintenance mode if a correct password is entered in the parameter 'Password'.</p> <p>A new password is valid, after it has been confirmed within the parameter 'Confirm new password'.</p> <p>Any new password must consist of at least 4 and a maximum of 16 characters and can contain letters and numbers.</p>
User entry	Character string comprising numbers, letters and special characters (16)

Confirm new password


Navigation	 Guidance → Commissioning → User management → Confirm new password
Description	Enter the new password again to confirm.
User entry	Character string comprising numbers, letters and special characters (16)

Status password entry


Navigation	 Guidance → Commissioning → User management → Status password 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	-----


3.2 "Import / Export" submenu

Navigation  Guidance → Import / Export

Create configuration report

Navigation	 Guidance → Import / Export → Create configuration report
Description	Generates the configuration report in the PDF format. This report documents the device configuration.
User entry	Clicking the Create configuration report button enables a configuration report to be generated. This report can be printed out or saved in PDF format.


















Save / Restore

Navigation	 Guidance → Import / Export → Save / Restore
Description	<ul style="list-style-type: none"> ■ The device settings can be saved with 'Save'. ■ Saved device settings can be written to the device with 'Restore'. <p>In addition, the user can choose whether to upload the data from the device before saving or to download the data to the device after restoring the settings.</p>
User entry	Clicking the Save/restore button activates the Save and Restore functions.

4 "Diagnostics" menu

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

Navigation  Diagnostics

Diagnostics	
▶ Active diagnostics	→  23
Actual diagnostics 1	→  23
Operating time	→  23
▶ Diagnostic list	→  24
Actual diagnostics 1	→  24
Actual diag 1 channel	→  24
Timestamp 1	→  24
▶ Event logbook	→  25
Previous diagnostics 1	→  25
Previous diag 1 channel	→  25
Timestamp 1	→  25
▶ Simulation	→  26
Diagnostic event simulation	→  26
Current output simulation	→  26
Current output value	→  26
Sensor simulation	→  27
Sensor simulation value	→  27

▶ Diagnostic settings	→ 📄 27
Alarm delay	→ 📄 27
Thermocouple diagnostic	→ 📄 28
▶ Minimum/maximum values	→ 📄 28
Sensor min value	→ 📄 28
Sensor max value	→ 📄 28
Reset sensor min/max values	→ 📄 29
Device temperature min value	→ 📄 29
Device temperature max value	→ 📄 29
Reset device temp. min/max values	→ 📄 29

4.1 "Active diagnostics" submenu

Navigation 📄 Diagnostics → Active diagnostics

Actual diagnostics 1

Navigation	📄 Diagnostics → Active diagnostics → Actual diagnostics 1
Description	Use this function to display the current diagnostics message. If several messages are present at the same time, the message with the highest priority is displayed.
User interface	Symbol for diagnostic behavior, diagnostic code and short message.


Operating time

Navigation	📄 Diagnostics → Active diagnostics → Operating time
Description	Use this function to display the length of time the device has been in operation up to now.
User interface	Hours (h)


4.2 "Diagnostic list" submenu

Navigation  Diagnostics → Diagnostic list


Actual diagnostics 1 to 3

Navigation	 Diagnostics → Diagnostic list → Actual diagnostics 1 to 3
Description	Use this function to display the current diagnostics message. If several messages are present at the same time, the message with the highest priority is displayed.
User interface	Example: F041 Sensor interrupted

Actual diag 1 to 3 channel

Navigation	 Diagnostics → Diagnostic list → Actual diag 1 to 3 channel
Description	Use this function to display the source (HW- or SW module) of the corresponding diagnostics message.
User interface	<ul style="list-style-type: none"> ■ ----- ■ Sensor ■ Device temperature ■ Current output ■ Sensor RJ
Factory setting	-----


Timestamp 1 to 3

Navigation	 Diagnostics → Diagnostic list → Timestamp 1 to 3
Description	Displays the time stamp of the previous diagnostic message in relation to the operating time.
User interface	Hours (h)


4.3 "Event logbook" submenu

Navigation  Diagnostics → Event logbook


Previous diagnostics 1 to 10

Navigation	 Diagnostics → Event logbook → Previous diagnostics 1 to 10
Description	Use this function to display historic diagnostic messages.
User interface	Example: F041 Sensor interrupted


Previous diag 1 to 10 channel

Navigation	 Diagnostics → Event logbook → Previous diag 1 to 10 channel
Description	Use this function to display the channel of a historic diagnostic message.
User interface	<ul style="list-style-type: none"> ■ ----- ■ Sensor ■ Device temperature ■ Current output ■ Sensor RJ
Factory setting	-----


Timestamp 1 to 10

Navigation	 Diagnostics → Event logbook → Timestamp 1 to 10
Description	Displays the time stamp of the previous diagnostic message in relation to the operating time.
User interface	Hours (h)


4.4 "Simulation" submenu

Navigation  Diagnostics → Simulation


Diagnostic event simulation

Navigation	 Diagnostics → Simulation → Diagnostic event simulation
Description	Select the diagnostic event to be simulated. Note: To terminate the simulation, select "Off".
User entry	Enter one of the diagnostic events using the drop-down menu. The assigned status signals and diagnostic behaviors are used in the simulation mode. Example: x043 Short circuit
Factory setting	Off

Current output simulation

Navigation	 Diagnostics → Simulation → Current output simulation
Description	Use this function to switch simulation of the current output on and off. The display alternates between the measured value and a diagnostics message of the "function check" category (C) while simulation is in progress.
Selection	<ul style="list-style-type: none"> ■ Off ■ On
Factory setting	Off

Current output value

Navigation	 Diagnostics → Simulation → Current output value
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 23.0 mA
Factory setting	3.58 mA

Sensor simulation



Navigation	Diagnostics → Simulation → Sensor simulation
Description	Use this function to activate the simulation of the process variable. The simulated value can be set with parameter "Sensor simulation".
Selection	<ul style="list-style-type: none"> ■ Off ■ On
Factory setting	Off

Sensor simulation value



Navigation	Diagnostics → Simulation → Sensor simulation value
Description	Use this function to enter a simulation value of the process variable. Subsequent measured value processing and the signal output use this simulation value. In this way, users can verify whether the measuring device has been configured correctly.
User entry	Signed floating-point number
Factory setting	0.0

4.5 "Diagnostic settings" submenu

Navigation Diagnostics → Diagnostic settings

Alarm delay



Navigation	Diagnostics → Diagnostic settings → Alarm delay
Description	Use this function to set the delay time during which a diagnostics signal is suppressed before it is output.
User entry	0 to 5 s
Factory setting	2 s

Thermocouple diagnostic


Navigation	Diagnostics → Diagnostic settings → Thermocouple diagnostic
Description	Use this function to turn off the 'Sensor corrosion' and 'Sensor interrupted' diagnostic functions of the thermocouple measurement. This may be necessary to allow the connection of electronic simulators (e.g. calibrators) during thermocouple measurement. The measurement accuracy of the transmitter is not affected when the thermocouple diagnostics are turned on or off.
Selection	<ul style="list-style-type: none"> ■ Off ■ On
Factory setting	On

4.6 "Minimum/maximum values" submenu

Navigation Diagnostics → Minimum/maximum values

Sensor min value

Navigation	Diagnostics → Minimum/maximum values → Sensor min value
Description	Use this function to display the minimum temperature measured in the past at sensor input (peakhold indicator).
User interface	Signed floating-point number
Factory setting	Positive floating-point number

Sensor max value

Navigation	Diagnostics → Minimum/maximum values → Sensor max value
Description	Use this function to display the maximum temperature measured in the past at sensor input (maximum indicator).
User interface	Signed floating-point number
Factory setting	Negative floating-point number

Reset sensor min/max values



Navigation	Diagnostics → Minimum/maximum values → Reset sensor min/max values
Description	Reset the maximum indicators for the minimum and maximum temperatures measured at the sensor inputs.
User entry	Clicking the Reset sensor min/max values button activates the reset function. As a result of this action, the min/max values of the sensor only display the reset, temporary values.

Device temperature min value

Navigation	Diagnostics → Minimum/maximum values → Device temperature min value
Description	Displays the minimum electronics temperature measured in the past (minimum indicator).
User interface	Signed floating-point number
Factory setting	Positive floating-point number

Device temperature max value

Navigation	Diagnostics → Minimum/maximum values → Device temperature max value
Description	Use this function to display the maximum electronics temperature measured in the past (maximum indicator).
User interface	Signed floating-point number
Factory setting	Negative floating-point number

Reset device temp. min/max values
























Navigation	Diagnostics → Minimum/maximum values → Reset device temp. min/max values
Description	Resets the maximum indicators for the minimum and maximum electronic temperatures measured.
User entry	Clicking the Reset device temperature min/max values button activates the reset function. As a result of this action, the min/max values of the device temperature only display the reset, temporary values.

5 "Application" menu

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

Navigation  Application

Application	
▶ Measured values	→  31
Sensor value	→  31
Sensor raw value	→  32
Output current	→  32
Percent of range	→  32
Device temperature	→  32
PV	→  32
SV	→  33
TV	→  33
QV	→  33
▶ Sensor	→  34
▶ Sensor	→  34
Unit	→  34
Sensor type	→  34
Connection type	→  35
2-wire compensation	→  35
Reference junction	→  36
RJ preset value	→  36
Sensor offset	→  36
▶ Linearization	→  37
Call./v. Dusen coeff. R0	→  37

Call./v. Dusen coeff. A	→ 37
Call./v. Dusen coeff. B	→ 37
Call./v. Dusen coeff. C	→ 38
Polynomial coeff. R0	→ 38
Polynomial coeff. A	→ 38
Polynomial coeff. B	→ 39
Sensor lower limit	→ 39
Sensor upper limit	→ 39
► Current output	→ 40
Lower range value output	→ 40
Upper range value output	→ 40
Failure mode	→ 40
Current trimming 4 mA	→ 41
Current trimming 20 mA	→ 41
Damping	→ 41
► HART configuration	→ 42
HART address	→ 42
No. of preambles	→ 42

5.1 "Measured values" submenu

Navigation  Application → Measured values


Sensor value

Navigation  Application → Measured values → Sensor value

Description Use this function to display the current measured value at the sensor input.

User interface Signed floating-point number

Sensor raw value

Navigation  Application → Measured values → Sensor raw value

Description Use this function to display the non-linearized mV/Ohm value at the specific sensor input.

User interface Signed floating-point number

Output current

Navigation  Application → Measured values → 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  Application → Measured values → Percent of range

Description Use this function to display the measured value in % of the span.

User interface Signed floating-point number

Device temperature

Navigation  Application → Measured values → Device temperature

Description Use this function to display the current electronics temperature.

User interface Signed floating-point number

PV

Navigation  Application → Measured values → PV

Description Use this function to display the primary HART value.

User interface Signed floating-point number

SV

Navigation  Application → Measured values → SV

Description Use this function to display the secondary HART value.

User interface Signed floating-point number

TV

Navigation  Application → Measured values → TV

Description Use this function to display the tertiary HART value.

User interface Signed floating-point number


QV

Navigation  Application → Measured values → QV

Description Use this function to display the quaternary (fourth) HART value.




User interface Signed floating-point number

5.2 "Sensor" submenu

Navigation  Application → Sensor

5.2.1 "Sensor" submenu

Navigation  Application → Sensor → Sensor

Unit 	
Navigation	 Application → Sensor → Sensor → Unit
Description	Selection of the unit for all measured values.
Selection	<p><i>SI units</i></p> <ul style="list-style-type: none"> ■ °C ■ K ■ Ohm <p><i>Custom-specific units</i></p> <ul style="list-style-type: none"> ■ °F ■ mV
Factory setting	°C
Additional information	<p>Please note: If another unit has been selected instead of the factory setting (°C), all the set temperature values are converted to correspond to the configured temperature unit. Example: 150 °C is set as the upper range value. Following the selection of °F as the engineering unit, the new (converted) upper range value = 302 °F.</p>
Sensor type 	

Navigation  Application → Sensor → Sensor → Sensor type

Description Use this function to select the sensor type for the sensor input.

Info:

Please observe the terminal assignment when connecting the sensor.

Selection

- Pt100 IEC60751, a=0.00385 (1)
- Pt200 IEC60751, a=0.00385 (2)
- Pt500 IEC60751, a=0.00385 (3)
- Pt1000 IEC60751, a=0.00385 (4)
- Pt100 JIS C1604, a=0.003916 (5)
- Ni100 DIN 43760, a=0.00618 (6)
- Ni120 DIN 43760, a=0.00618 (7)
- Ni100 OIML/GOST 6651-09, a=0.00617 (12)
- Ni120 OIML/GOST 6651-09, a=0.00617 (13)

- 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 T (Cu-CuNi) IEC60584 (40)
- Type L (Fe-CuNi) DIN43710 (41)
- Type L (NiCr-CuNi) GOST R8.585-01 (43)
- Type U (Cu-CuNi) DIN43710 (42)
- Pt50 GOST 6651-94, a=0.00391 (8)
- Pt100 GOST 6651-94, a=0.00391 (9)
- Cu50 GOST 6651-09, a=0.00428 (10)
- Cu100 OIML/GOST 6651-09, a=0.00428 (11)
- Cu50 OIML R84:2003, a=0.00428 (10)
- Cu50 OIML/GOST 6651-94, a=0,00426 (14)
- RTD Platinum (Callendar/van Dusen)
- RTD Poly Nickel (OIML R84, GOST 6651-94)
- RTD Polynomial Copper (OIML R84:2003)
- 10...400 Ohm
- 10...2000 Ohm
- -20...100 mV

Factory setting Pt100 IEC60751, a=0.00385 (1)

Connection type

Navigation  Application → Sensor → Sensor → Connection type

Prerequisite An RTD sensor or a resistance transmitter must be specified as the sensor type.

Description Use this function to select the connection type for the sensor.

Selection

- 2- wire
- 3- wire
- 4- wire

Factory setting 4- wire

2-wire compensation

Navigation  Application → Sensor → Sensor → 2-wire compensation

Prerequisite An RTD sensor or a resistance transmitter with a **2-wire** connection type must be specified as the sensor type.

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 0.0 Ohm

Reference junction

Navigation  Application → Sensor → 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).

Additional information:

If "Fixed value" is selected, the compensation value is specified via the RJ preset value parameter.

Selection

- Internal measurement
- Fixed Value

Factory setting Internal measurement

RJ preset value

Navigation  Application → Sensor → Sensor → RJ preset value

Prerequisite The **Fixed value** parameter must be set if the **Reference junction** option is selected.

Description The Fixed value parameter must be set if the Reference junction n option is selected.

User entry -58.0 to 360.0

Factory setting 0.0

Sensor offset

Navigation  Application → Sensor → Sensor → Sensor offset

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.


User entry -18.0 to 18.0

Factory setting 0.0


5.2.2 "Linearization" submenu

Navigation  Application → Sensor → Linearization


Call./v. Dusen coeff. R0

Navigation	 Application → Sensor → Linearization → Call./v. Dusen coeff. R0
Prerequisite	The RTD platinum (Callendar/Van Dusen) option is enabled in the Sensor type parameter.
Description	Use this function to set the R0 value for sensor linearization with the Callendar/Van Dusen polynomial.
User entry	10.0 to 2 000.0 Ohm
Factory setting	100.0 Ohm


Call./v. Dusen coeff. A


Navigation	 Application → Sensor → Linearization → Call./v. Dusen coeff. A
Prerequisite	The RTD platinum (Callendar/Van Dusen) option is enabled in the Sensor type parameter.
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	0.0039083


Call./v. Dusen coeff. B


Navigation	 Application → Sensor → Linearization → Call./v. Dusen coeff. B
Prerequisite	The RTD platinum (Callendar/Van Dusen) option is enabled in the Sensor type parameter.
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


Call./v. Dusen coeff. C


Navigation	 Application → Sensor → Linearization → Call./v. Dusen coeff. C
Prerequisite	The RTD platinum (Callendar/Van Dusen) option is enabled in the Sensor type parameter.
Description	Use this function to set the coefficients for sensor linearization with the Callendar/Van Dusen polynomial.
User entry	$-1.0 \cdot 10^{-09}$ to $1.0 \cdot 10^{-09}$
Factory setting	-4.183E-12


Polynomial coeff. R0


Navigation	 Application → Sensor → Linearization → Polynomial coeff. R0
Prerequisite	The RTD poly nickel or RTD copper polynomial option is enabled in the Sensor type parameter.
Description	Use this function to set the R0 value for linearization of nickel/copper sensors.
User entry	10.0 to 2 000.0 Ohm
Factory setting	100.0 Ohm


Polynomial coeff. A


Navigation	 Application → Sensor → Linearization → Polynomial coeff. A
Prerequisite	The RTD poly nickel or RTD copper polynomial option is enabled in the Sensor type parameter.
Description	Use this function to set the coefficients for sensor linearization of copper/nickel resistance thermometers.
User entry	0.004 to 0.006
Factory setting	0.0054963


Polynomial coeff. B 

Navigation	 Application → Sensor → Linearization → Polynomial coeff. B
Prerequisite	The RTD poly nickel or RTD copper polynomial option is enabled in the Sensor type parameter.
Description	Use this function to set the coefficients for sensor linearization of copper/nickel resistance thermometers.
User entry	$-2.0 \cdot 10^{-05}$ to $2.0 \cdot 10^{-05}$
Factory setting	6.7556E-06

Sensor lower limit 

Navigation	 Application → Sensor → Linearization → Sensor lower limit
Prerequisite	The RTD platinum, RTD poly nickel or RTD copper polynomial option is enabled in the Sensor type parameter.
Description	Use this function to set the lower calculation limit for special sensor linearization.
User entry	-10 000.0 to 10 000.0
Factory setting	Depends on the sensor type selected.


Sensor upper limit 

Navigation	 Application → Sensor → Linearization → Sensor upper limit
Prerequisite	The RTD platinum, RTD poly nickel or RTD copper polynomial option is enabled in the Sensor type parameter.
Description	Use this function to set the upper calculation limit for special sensor linearization.
User entry	-10 000.0 to 10 000.0
Factory setting	Depends on the sensor type selected.

5.3 "Current output " submenu

Navigation  Application → Current output

Lower range value output

Navigation  Application → Current output → 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

Factory setting 0.0

Upper range value output

Navigation  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

Factory setting 100.0

Failure mode

Navigation  Application → Current output → Failure mode

Description Use this function to select the signal on alarm level of the current output in the event of an error.

Selection

- Max.
- Min.

Factory setting Min.

Current trimming 4 mA



Navigation	Application → Current output → 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	4.0 mA
Additional information	The trimming only affects the current loop values from 3.8 to 20.5 mA. A failure mode with min. and max. current values is not subject to trimming.

Current trimming 20 mA



Navigation	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	20.0 mA
Additional information	The trimming only affects the current loop values from 3.8 to 20.5 mA. A failure mode with min. and max. current values is not subject to trimming.

Damping



Navigation	Application → Current output → Damping
Description	Use this function to set the time constant for the damping of the measured value.
User entry	0 to 120 s
Factory setting	0 s
Additional information	The current output responds to fluctuations in the measured value with an exponential delay. The time constant of this delay is defined by this parameter. If a low time constant is entered, the current output responds quickly to the measured value. On the other hand, the response of the current output is delayed significantly if a high time constant is entered.

5.4 "HART configuration" submenu

Navigation  Application → HART configuration

HART address

Navigation  Application → HART configuration → HART address

Description Enter the address via which the data exchange takes place via HART protocol.

Additional information:

In FDT/DTM based operating tools, e.g. FieldCare, DeviceCare from Endress+Hauser the HART address can be set via the communication DTM.

Only with address "0" a measured value transmission via the current value is possible. For all other addresses, the current is fixed to 4.0 mA (multidrop mode).

User entry 0 to 63

Factory setting 0

No. of preambles

Navigation  Application → HART configuration → No. of preambles

Description Use this function to define the number of preambles in the HART telegram




















User entry 5 to 20

Factory setting 5

6 "System" menu

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

Navigation  System

System	
▶ Device management	→  45
Device tag	→  45
HART short tag	→  45
Device reset	→  45
Configuration counter	→  46
Configuration changed	→  46
Reset configuration changed flag	→  46
▶ User management	→  47
▶ User management	→  47
Access status	→  47
▶ Delete password	→  48
Status password entry	→  48
▶ Enter password	→  48
Password	→  48
Status password entry	→  48
▶ Define password	→  49
New password	→  49
Confirm new password	→  49
Status password entry	→  50


▶ Recover password	→ 50
Reset password	→ 50
Status password entry	→ 50
▶ Change password	→ 51
Old password	→ 51
New password	→ 51
Confirm new password	→ 51
Status password entry	→ 52
▶ Information	→ 52
▶ Device	→ 52
Serial number	→ 52
Order code	→ 53
Firmware version	→ 53
Hardware revision	→ 53
Extended order code 1	→ 53
Device name	→ 54
Manufacturer	→ 54
▶ HART info	→ 54
Device type	→ 54
Device revision	→ 55
HART revision	→ 55
HART descriptor	→ 55
HART message	→ 55
Hardware revision	→ 56
Software revision	→ 56

HART date code	→ 56
Manufacturer ID	→ 56
Device ID	→ 56


6.1 "Device management" submenu

Navigation  System → Device management


Device tag

Navigation	 System → Device management → Device tag
Description	Displays the name for the measuring point.
User entry	Character string comprising numbers, letters and special characters (32)
Factory setting	Depends on the product root and serial number EH_TMT182B_serial number

HART short tag

Navigation	 System → Device management → HART short tag
Description	Defines the short tag for the measuring point. Maximum length: 8 characters Allowed characters: A-Z, 0-9, certain special characters
User entry	Character string comprising numbers, letters and special characters (8)
Factory setting	????????


Device reset

Navigation	 System → Device management → Device reset
Description	Use this function to reset the device configuration - either entirely or in part - to a defined state.

Selection	<ul style="list-style-type: none"> ■ Not active ■ Restart device ■ To delivery settings ■ To factory defaults
------------------	---

Factory setting	Not active
------------------------	------------

Configuration counter

Navigation	 System → Device management → Configuration counter
-------------------	--

Description	Use this function to display the counter reading for changes to device parameters.
--------------------	--


Info:

Static parameters, whose values change during optimization or configuration, cause this parameter to increment by 1. This supports parameter version management. If several parameters change, e. g. due to loading of parameters from FieldCare, etc. in the device, the counter can show a higher value. The counter can never be reset and is not reset to a default value after a device reset. If the counter overflows, (16 bit), it starts again at 1.

User interface	0 to 65 535
-----------------------	-------------

Factory setting	0
------------------------	---

Configuration changed

Navigation	 System → Device management → Configuration changed
-------------------	--

Description	Indicates whether the configuration of the device has been changed by a master (primary or secondary).
--------------------	--

User interface	<ul style="list-style-type: none"> ■ Primary master ■ Secondary master
-----------------------	--

Reset configuration changed flag

Navigation	 System → Device management → Reset configuration changed flag
-------------------	---

Description	The Configuration changed information is reset by a master (primary or secondary)
--------------------	--

User entry	Clicking the button resets the information.
-------------------	---

6.2 "User management" submenu

Logout → Maintenance	Switch to 'Operator' access authorization
Change user role → Operator	Password
	Status password entry
Forgot password? → Operator	Reset password
	Status password entry
Change password → Maintenance	Old password
	New password
	Confirm new password
	Status password entry
Delete password → Maintenance	Status password entry
Define password → Maintenance	New password
	Confirm new password
	Status password entry

Navigation in the submenu is supported by the following operating elements:


- **Back**
Return to the previous page
- **Cancel**
If Cancel is selected, the status before the submenu was started is restored

Navigation  System → User management


6.2.1 "User management" submenu

Navigation  System → User management → User management


Access status

Navigation	 System → User management → User management → Access status
Description	If additional write protection is active, this restricts the current access authorization even further.
User interface	<ul style="list-style-type: none"> ▪ Operator ▪ Maintenance
Factory setting	Maintenance


6.2.2 "Delete password" submenu

Navigation  System → User management → Delete password


Status password entry

Navigation	 System → User management → Delete password → Status password 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	-----


6.2.3 "Enter password" submenu

Navigation  System → User management → Enter password

Password

Navigation	 System → User management → 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)

Status password entry


Navigation	 System → User management → Enter password → Status password 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	-----


6.2.4 "Define password" submenu

Navigation  System → User management → Define password


New password

Navigation	 System → User management → Define password → New password
Description	<p>If the factory setting is not changed, the device works without write-protection, using userrole 'Maintenance'. The configuration data of the device can always be modified.</p> <p>Once the password has been defined, write-protected devices can only be set to maintenance mode if a correct password is entered in the parameter 'Password'.</p> <p>A new password is valid, after it has been confirmed within the parameter 'Confirm new password'.</p> <p>Any new password must consist of at least 4 and a maximum of 16 characters and can contain letters and numbers.</p>
User entry	Character string comprising numbers, letters and special characters (16)

Confirm new password

Navigation	 System → User management → Define password → Confirm new password
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 management → Define password → Status password 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 -----

6.2.5 "Recover password" submenu

Navigation  System → User management → Recover password

Reset password

Navigation  System → User management → Recover password → Reset password

Description Enter a code to reset the current password.
CAUTION: Use this function only if the current password is lost. Contact your Endress +Hauser Sales Center.

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

Status password entry

Navigation  System → User management → Recover password → Status password 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

6.2.6 "Change password" submenu

Navigation  System → User management → Change password

Old password 	
Navigation	 System → User management → 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 management → Change password → New password
Description	<p>If the factory setting is not changed, the device works without write-protection, using userrole 'Maintenance'. The configuration data of the device can always be modified.</p> <p>Once the password has been defined, write-protected devices can only be set to maintenance mode if a correct password is entered in the parameter 'Password'.</p> <p>A new password is valid, after it has been confirmed within the parameter 'Confirm new password'.</p> <p>Any new password must consist of at least 4 and a maximum of 16 characters and can contain letters and numbers.</p>
User entry	Character string comprising numbers, letters and special characters (16)
Confirm new password 	
Navigation	 System → User management → Change password → Confirm new password
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 management → Change password → Status password 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	-----


6.3 "Information" submenu

Navigation  System → Information


6.3.1 "Device" submenu

Navigation  System → Information → Device


Serial number

Navigation	 System → Information → Device → Serial number
Description	<p>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.</p> <p>Additional information:</p> <p>The serial number can also be found on the nameplate of the sensor and transmitter.</p>
User interface	Character string comprising numbers, letters and special characters


Order code

Navigation	 System → Information → Device → 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	 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	 System → Information → Device → Hardware revision
Description	Use this function to display the hardware revision of the device.
User interface	Character string comprising numbers, letters and special characters


Extended order code 1 to 3

Navigation	 System → Information → Device → Extended order code 1 to 3
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. Additional information: The extended order code can also be found on the nameplate.
User interface	Character string comprising numbers, letters and special characters

Device name

Navigation	 System → Information → Device → 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
Factory setting	iTEMP TMT182B


Manufacturer

Navigation	 System → Information → Device → Manufacturer
Description	Displays the manufacturer.
User interface	Character string comprising numbers, letters and special characters
Factory setting	Endress+Hauser


6.3.2 "HART info" submenu

Navigation  System → Information → HART info


Device type

Navigation	 System → Information → HART info → Device type
Description	Use this function to view the device type with which the device is registered with the HART FieldComm Group. The device type is specified by the manufacturer. It is needed to assign the appropriate device description file (DD) to the device.
User interface	0x11D2

Device revision


Navigation	 System → Information → HART info → Device revision
Description	Use this function to view the device revision with which the device is registered with the HART® FieldComm Group. It is needed to assign the appropriate device description file (DD) to the device.
User interface	0x01

HART revision


Navigation	 System → Information → HART info → HART revision
Description	Display the HART protocol revision of the measuring device
User interface	7


HART descriptor




Navigation	 System → Information → HART info → HART descriptor
Description	Maximum length: 16 characters; permitted characters: A-Z, 0-9, certain special characters.
User entry	Character string comprising numbers, letters and special characters (16)
Factory setting	????????????????

HART message




Navigation	 System → Information → HART info → HART message
Description	Use this function to define a HART message which is sent via the HART protocol when requested by the master. Maximum length: 32 characters Allowed characters: A-Z, 0-9, certain special characters
User entry	Character string comprising numbers, letters and special characters (32)
Factory setting	????????????????????????????????????


Hardware revision


Navigation	 System → Information → HART info → Hardware revision
Description	Use this function to display the hardware revision of the device.
User interface	0x01

Software revision


Navigation	 System → Information → HART info → Software revision
Description	Displays the software revision of the measuring device
User interface	0x01

HART date code




Navigation	 System → Information → HART info → HART date code
Description	Use this function to define date information for individual use. Date in the format year-month-day (YYYY-MM-DD)
User entry	The date can be saved here in the predefined format.

Manufacturer ID

Navigation	 System → Information → HART info → Manufacturer ID
Description	Use this function to view the manufacturer ID with which the device is registered with the FieldComm Group.
User interface	0x0011

Device ID

Navigation	 System → Information → HART info → Device ID
Description	Shows the device ID for identifying the device in a HART network. In addition to the device type and manufacturer ID, the device ID is part of the unique ID. Each HART device is uniquely identified by the unique device ID.

User interface

Positive integer



www.addresses.endress.com
