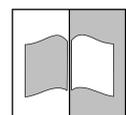


## User Guide

### Service Software 'inTouch'

for the product families  
inTouch and PRO-LINE



## Masthead

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### Version history

Rev. ST4-A 07/17	Version 1 (first edition)
Rev. ST4-B 11/19	Version 2 Upgrading DE90 PRO-LINE®
Rev. ST4-C 07/20	Version 3 Foreign language switching
Rev. ST4-D 11/20	Version 4 Offline mode, user administration
Rev. ST4-E 01/21	Version 5 User role 'view' password corrected
Rev. ST4-F 03/24	Version 6 Update

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# 1 First steps

## 1.1 Introduction

The following FISCHER products can be configured easily on the PC with the inTouch service software.

### Product family ‚FISCHER in touch‘ ®

- EA 15 Measured value display
- EA 16 Measured value display for panel installation

### Product family ‚PRO-LINE‘ ®

- DE90 Differential pressure transmitter
- FT90 Humidity and Temperature Measuring device

The software can be installed on every conventional PC. The system requirements are stated in the following section.

The units can be connected directly to the PC via the USB interface. Configuration of units permanently installed in e.g. a system can be saved in a file. The data is transferred with a USB stick.

## 1.2 System Requirements

The following requirements are necessary to install the service software 'inTouch' on a PC:

- Supported operating systems:
  - Windows 11 64-bit
  - Windows 10 32-bit/64-bit
  - Windows 8.1 32-bit/64-bit
  - Windows 8 32-bit/64-bit
  - Windows 7 32-bit/64-bit
  - Windows Server 2012 R2
  - Windows server 2012
  - Windows Server 2008 32-bit/64-bit
  - Windows Server 2008 R2
- Run-time environment:
  - Microsoft .NET Framework from version 4.5.2
- Screen resolution:
  - 1440 x 900 and larger

## 1.3 Installation

Proceed as follows to install the program:

### Initial installation

1. Open the installation program 'inTouch\_Setup.exe'
2. Agree to the conditions of the licence and then install the software
3. After installation, close the installation dialogue

The USB driver is automatically installed under Windows 10.

The USB driver must be installed separately under Windows 7 and 8x. To do this, follow the installation dialogue after inTouch has been installed.

### Software update

An existing Internet connection is required for this. In the SETTINGS [▶ 21] you can specify whether an update should be performed manually, automatically or not at all. If an update is found, a message appears on the screen. There you can start or reject the update.

## 1.4 Connect device

To configure a unit with the PC software, it needs to be connected to the PC via the USB interface. A USB hub can be used to connect several devices at the same time. Also, the unit must be connected to a power supply (e.g. mains adapter, lab power unit etc.) The pin assignment of the M12 plug is stated in the operating instruction of the respective unit.

The following figure shows an example for two EA15.

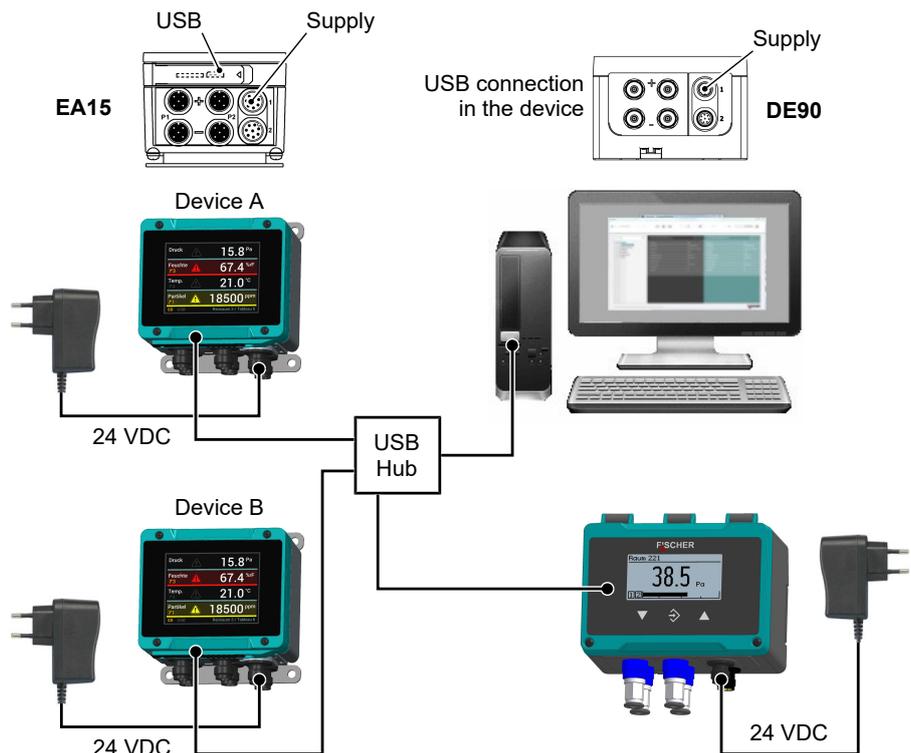


Fig. 1: Device connection (example)

## 1.5 Conventions

### 1.5.1 File format \*.cfg

This file extension identifies a configuration file. The parameter set of a unit is saved in files of this type. Both the hard disk and a USB stick can be used as storage media. This file format can be used to transfer a parameter set to remote units via USB stick.

### 1.5.2 Abbreviations

SP1 ... SP4	Switching outputs
AI1 ... AI4	Analogue inputs
AO1 ... AO4	Analogue outputs
DL1 ... DL4	Data logger
EL1 ... EL4	Event log

### 1.5.3 Explanation of symbols

Symbol	Name	Description
	System	Pulldown menu
	New...	All windows are closed and a new parameter set can be created.
	Open...	Open file
	Save as...	Save file
	Print...	Print file
	Recovery	Restoring the parameterisation (delivery status)
	Help...	The inTouch manual is displayed
	Info about...	The home screen is displayed
	Close...	Exit the program
	VIEWS	Pulldown Menu
	Measuring	Measured value Mode
	Configuration	Parameter setting mode
	OFFLINE MODE	Creation of parameter sets without a connected device
	Add document	New parameter set
	RESCAN	Reload parameter set
	IMPORT	Import parameter set
	EXPORT	Export parameter set
	ONLINE	Control of the measured value display
	PAUSE	Control of the measured value display
	OFFLINE	Control of the measured value display
	INFO	Show labeling
	SEARCH	Full-text search
	SETTINGS	Program settings
	USER	User administration
	Expand	Menu extension
	Connect	Connect parameter lists
	Disconnect	Disconnect parameter lists

### 1.6 Starting the software



Fig. 2: Desktop Icon

A link is created on your desktop when the software is installed. The program is started with a double-click. First, the start screen opens which contains information about the program version and the supported units. This screen can be called up again with the 'Info about...' button in the SYSTEM menu.



Fig. 3: Start screen

After a few seconds, the start screen disappears and the main screen is shown again. A popup window opens for the login. (Page User administration [▶ 14])

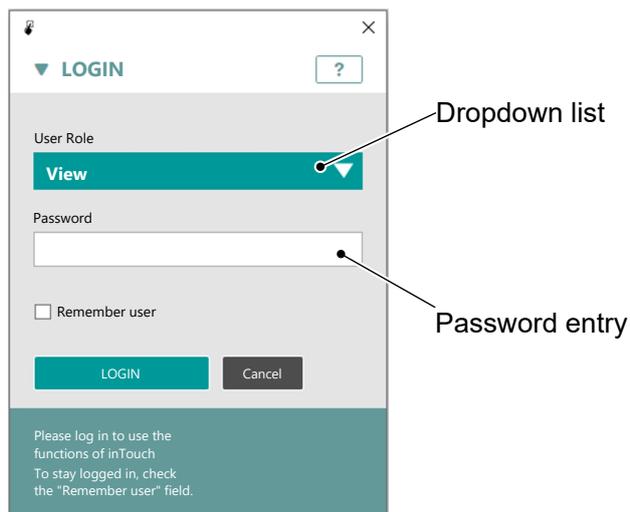


Fig. 4: Login PopUp

## 1.7 Main screen

After the login, an empty main screen appears. As soon as a unit is connected via the USB interface, you can load its parameter set with the Import function [▶ 12] for processing.

The following explains the button bar and their functions first.

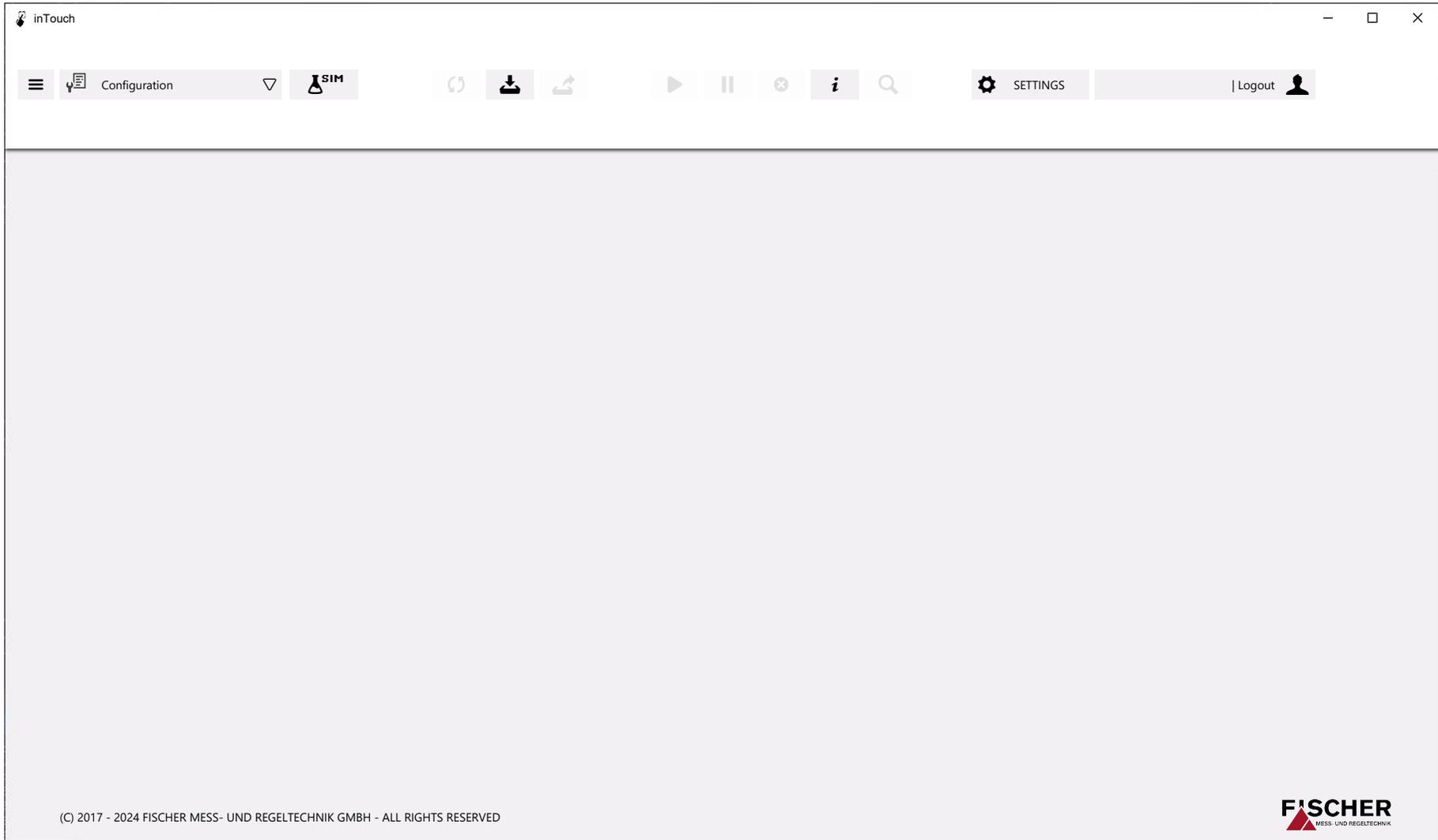


Fig. 5: Main screen after the login

### 1.8 Button bar



Fig. 6: Button bar

**NOTICE! The INFO function displays the labels.**

The button bar for controlling the program is divided into five functional sections:

1. System
2. Import/Export
3. Control measured data display
4. Dialog
5. User administration

Not all functions of the button bar are always available. For example, the EXPORT function is deactivated, if no parameter set has been loaded. An active function is shown in a grey field, a deactivated function is greyed out. The various statuses of the button are explained below.



#### NOTICE

##### Functions and pulldown menus

The sections are briefly outlined below and the functions and pull-down menus are stated. The following chapter Software operation [▶ 16], explains the program functions in more detail.

### 1.8.1 System

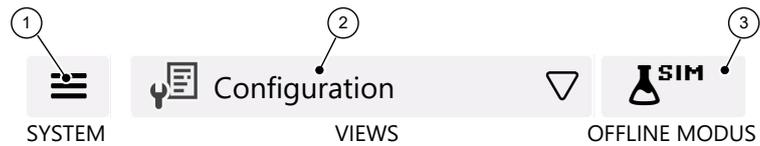


Fig. 7: System Menu

1	SYSTEM	Pulldown Menu	
2	VIEWES	Pulldown Menu	Working mode
3	OFFLINE MODE	Pulldown Menu	Simulation

#### SYSTEM Pulldown Menü

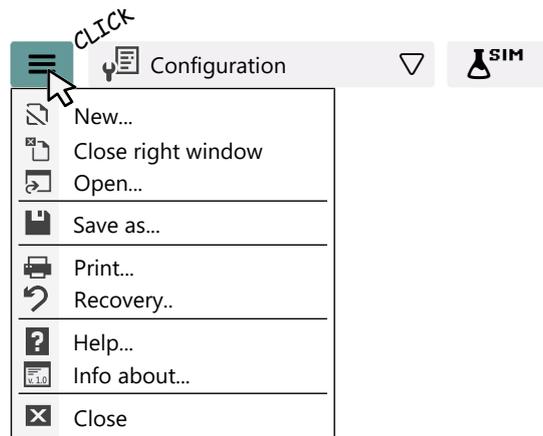


Fig. 8: System Pulldown Menu

New	All windows are closed.
Close the right window	The right-hand window is closed. All changes that have not been saved or transferred are deleted.
Open...	A *.cfg file is opened.
Save as...	The content is saved as a *.cfg file.
Print...	The unit documentation is printed.
Recovery	The original parameterisation (delivery status) is restored.
Help...	The inTouch manual is displayed.
Info about...	The start screen is displayed.
Close	The programme will be terminated.

### VIEWS pull-down menu

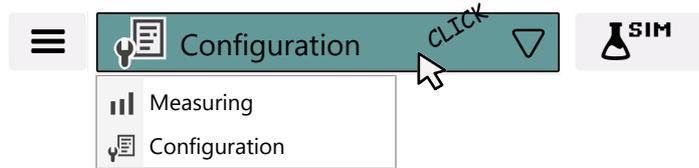


Fig. 9: Views

Measuring	In this mode, measured values can be transmitted from a connected device and stored.
Configuration	This mode can be used to create a parameter set for a unit.

Only units of the PRO-LINE series can be operated in measuring mode. For all other units, only the parameterisation mode is available.

### OFFLINE MODE Pulldown Menü

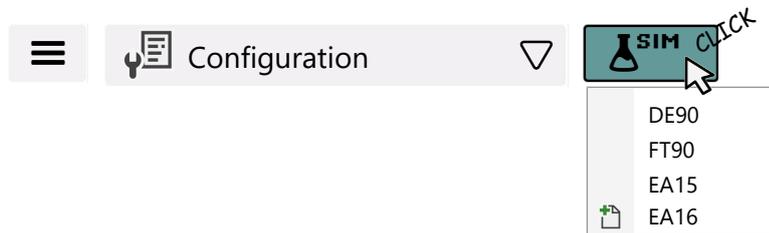


Fig. 10: Offline Mode

In this mode, parameter lists can be created without the units being physically connected.

### 1.8.2 Import/Export

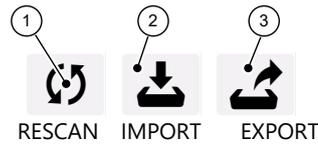


Fig. 11: Import/Export menu

1	RESCAN	Function
2	IMPORT	Function
3	EXPORT	Function

#### IMPORT function



Fig. 12: IMPORT popup data source

You can import a parameter set either from a file (\*.cfg) or from the units connected via the USB cable. As soon as a parameter set has been imported, the EXPORT and RESCAN functions are activated.

File	The Explorer file is opened and you can select the *.cfg file you want to load. This may also be on a USB stick. In this way you can save the parameter set of a permanently implemented unit of a system onto a USB stick and edit this easily on the PC.
USB	A popup window opens. Several units can be connected via USB; this are shown in a list. To differentiate between the units, the serial numbers are listed.

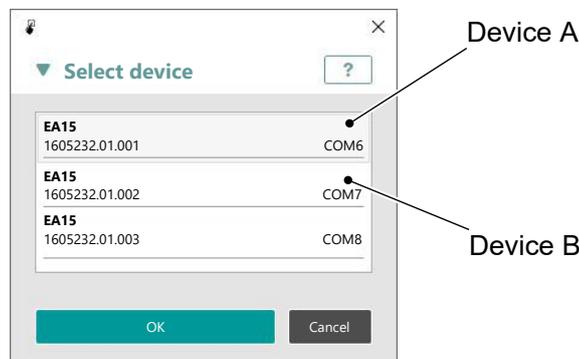


Fig. 13: Popup IMPORT USB: List of the connected devices.

### EXPORT function



Fig. 14: EXPORT Popup data goal

Once the parameter set of a unit has been imported, the EXPORT function is active. The modified parameter set can be transferred to the connected unit or saved in a file. A plausibility check of the parameter is carried out, and, if necessary, an error message is generated or the successful transfer is shown in a popup window.

### RESCAN function



Fig. 15: RESCAN function

Once the parameter set of a unit has been imported, the RESCAN function is active. As soon as you click this button, the last loaded parameter for the active window set is loaded again. All changes that are not saved will be lost.

### 1.8.3 Control measured data display

**NOTICE!** These control elements are only available to devices of the product family PRO-LINE.

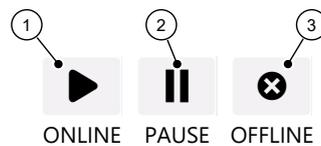


Fig. 16: Control measured data display

1	ONLINE	Function
2	PAUSE	Function
3	OFFLINE	Function

The control buttons become active when the view is switched to measured values in the system menu.

### 1.8.4 Dialog

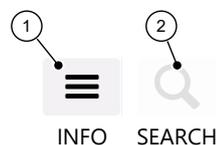


Fig. 17: Dialog

1	INFO	Button
2	SEARCH	Function

The labelling of the button bar can be switched on and off with the INFO button. The SEARCH function is only available for devices of the ,FISCHER inTouch® product family.

### 1.8.5 User administration

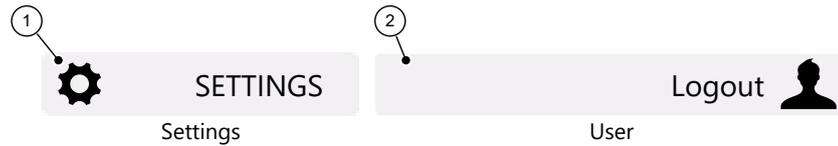


Fig. 18: User administration

1	SETTINGS	Global programme settings
2	USER	Login

#### SETTINGS



Fig. 19: Settings

The **Settings** button opens a pop-up window. There you can make some global settings for the inTouch software.

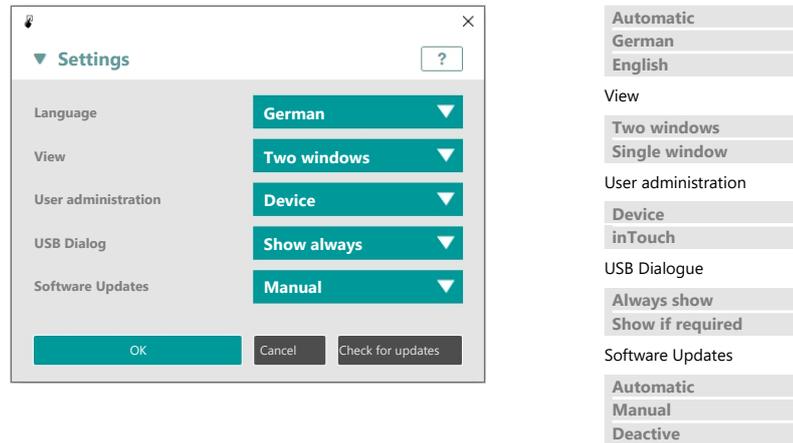


Fig. 20: PopUp Settings

Depending on the settings made for the user management, the login functions in different ways.

#### USER



Fig. 21: User

The **User** button opens a pop-up window. The login is carried out with this window.

The above illustration shows the status after the programme start. After logging in, the active device series and the user role are displayed.



Fig. 22: Example: User role Admin (DE90)

### a) User management: inTouch

A more detailed description of the user administration can be found in the section Software Operation/Login.

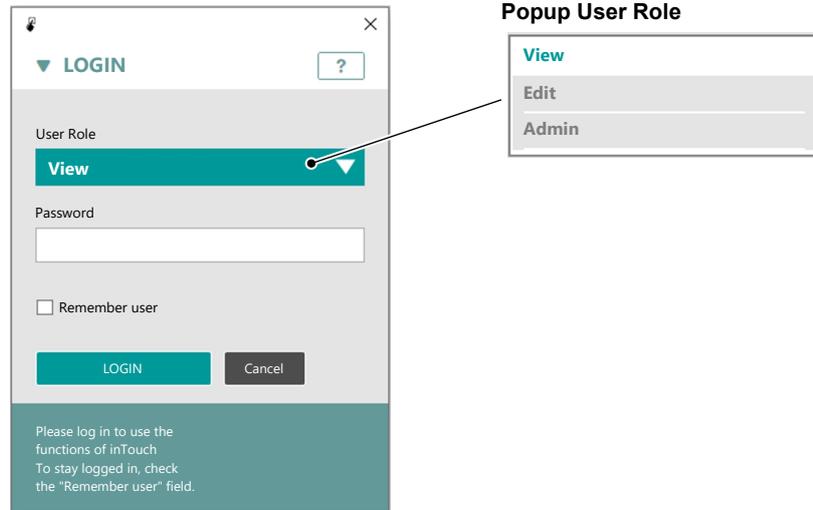


Fig. 23: LOGIN window

### b) User management: Device

Different users are defined for each type of unit. For more detailed information, please refer to the operating instructions for the connected unit. The login for the EA15 unit type is shown as an example.

**NOTICE!** The default password specified in the operating instructions applies.

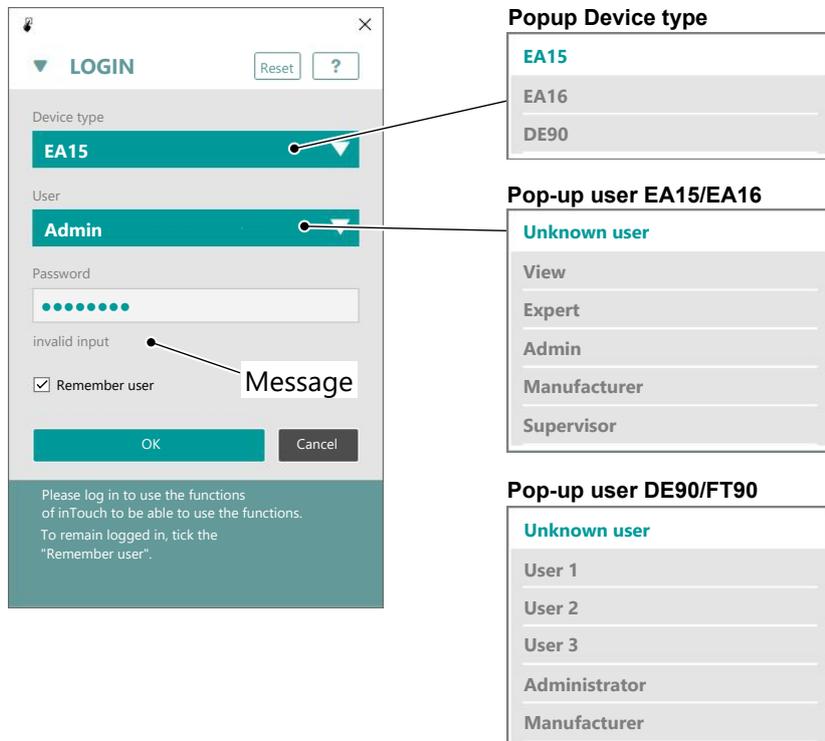


Fig. 24: LOGIN window EA15

## 2 Software operation

### 2.1 General guidelines:

Operation of the software is usually explained using the example of an EA15 device. Device functions that can only be used for certain devices are explained using the example of the applicable device (e.g. DE90). In general, the software is operated in the same ways for all supported devices.

### 2.2 Login

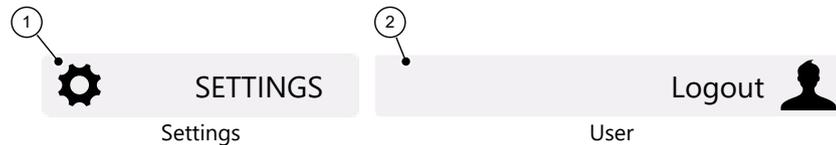


Fig. 25: User management

There are two types of user administration in theinTouch Software:

#### 1. Internal user administration

Three user roles are available for internal user administration. The passwords can be changed as desired.

#### 2. Device-specific user administration

In the case of device-specific user administration, the user roles and passwords of the devices are used. It is not possible to change the passwords.

After starting the programme, the pop-up window for the login of the internal user administration appears. Which user administration is used depends on the software settings. The 'Settings' button opens the pop-up window for the software settings. The user administration can be set there.

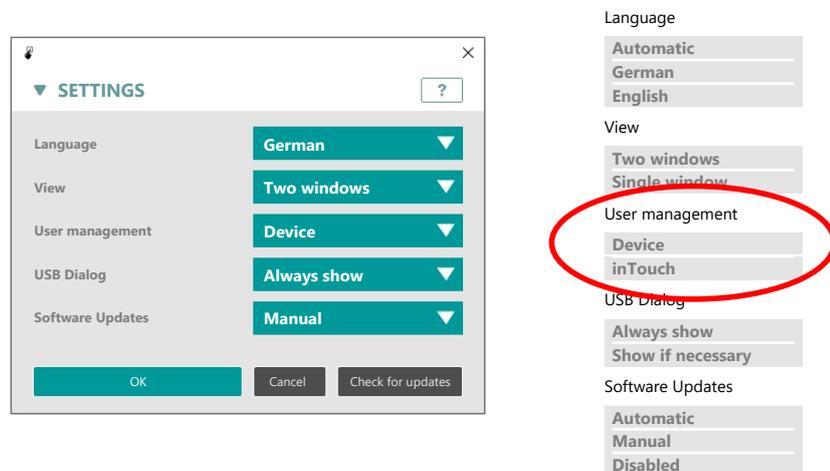


Fig. 26: Pop-up SETTINGS

### 2.2.1 InTouch user administration

#### Login

After starting the programme, the pop-up window for the internal user administration appears. There are three user roles.

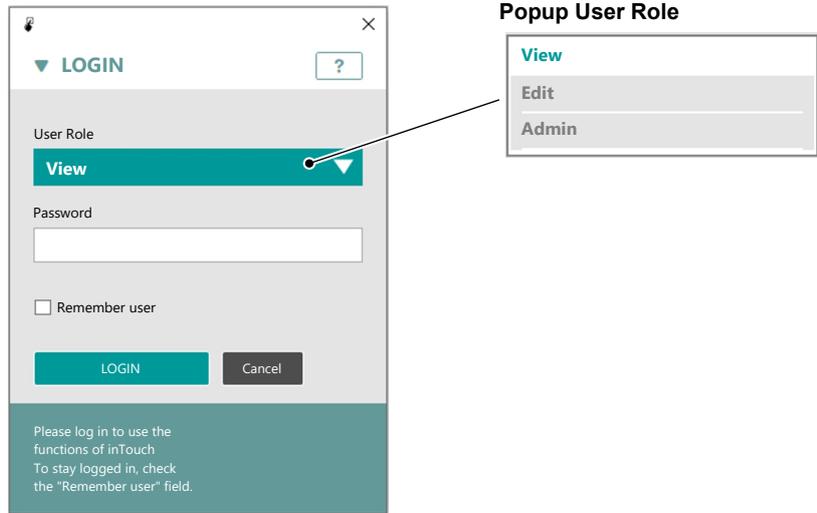


Fig. 27: LOGIN window

The following default passwords are set for these user roles. Only these passwords are used to log in to the inTouch service software. The checkbox 'Remember user' can be used to determine whether or not it is necessary to re-enter the user and password after a restart.

User profile	Default password	Rights
View	1234	Read
Edit	1234	Read, Write
Admin	56789	Read, Write, Password

#### Logout

After successful login, the login window closes. To log out, the window with the USER button is opened again. Instead of the OK button, the Logout button now appears for logging out.

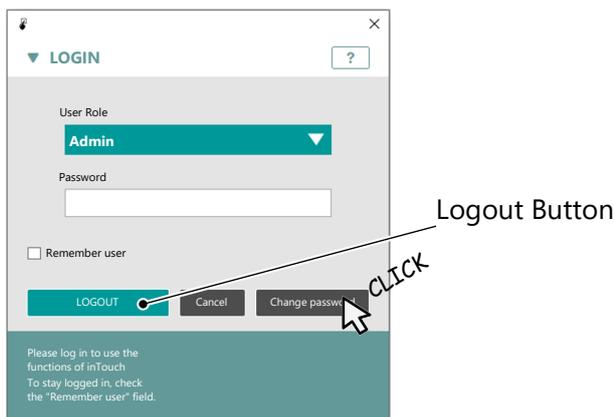


Fig. 28: LOGOUT window

## Change passwords

Only the administrator can change the passwords. A corresponding button appears in the login window. After clicking on the button, a pop-up window opens.

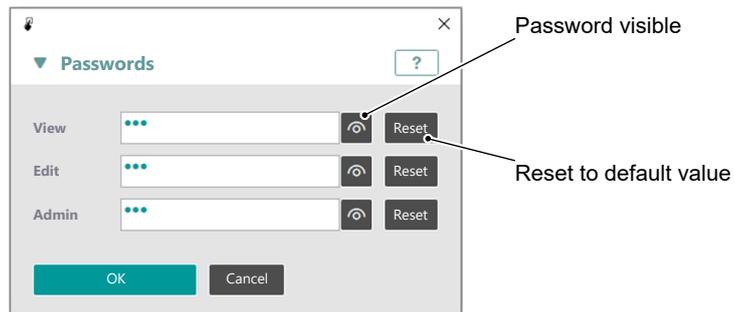


Fig. 29: Change passwords

Any number of alphanumeric characters can be used for the passwords.

### 2.2.2 Device-specific user administration

After the user administration has been changed to 'Devices', the pop-up window for the login appears after the programme is started again.

#### Login

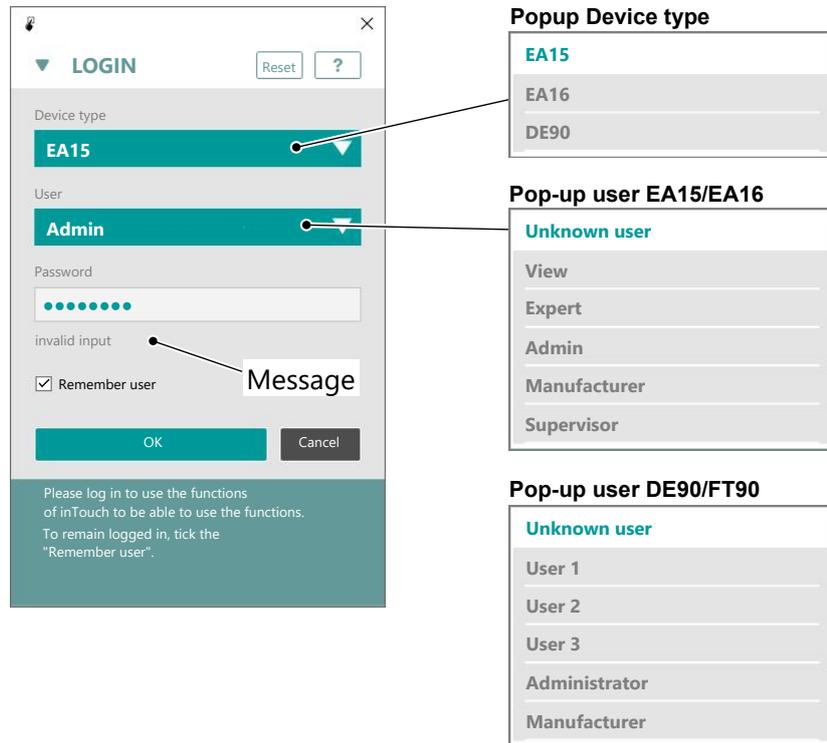


Fig. 30: LOGIN window

The user profiles created in the unit are used for logging in (see table). If rights can be assigned for these profiles, they can also be edited with the service software.<sup>(1)</sup>

The following passwords are set on delivery. Only these passwords are used to log in to the inTouch service software. The passwords stored in the units are not relevant for logging in.

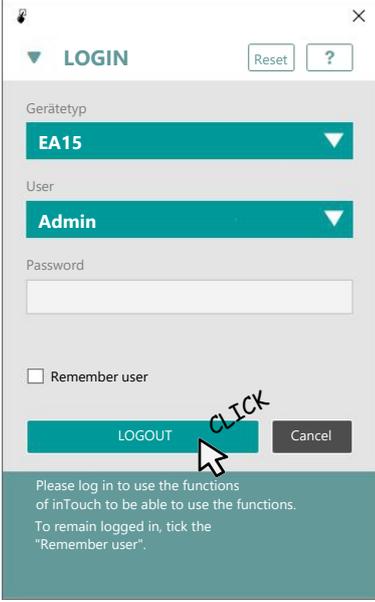
The checkbox 'Remember user' can be used to determine whether or not it is necessary to re-enter the user and password after a restart.

Devices	User profile	Default password	Rights
<b>EA15/EA16</b>	View	123	Read
	Expert	1234	Read, Write
	Admin	12345	Read, write, user rights
<b>DE90/FT90</b>	Users 1 - 3	000	Read, Write
	Administrator	000	Read, write, user rights

After entering the password, log in by pressing the OK button. An invalid password is displayed in the login window.

<sup>(1)</sup>For further information, please refer to the respective operating instructions of the unit.

## Logout



The screenshot shows a 'LOGIN' window with a close button (X) in the top right corner. Below the title bar, there are 'Reset' and '?' buttons. The form contains three dropdown menus: 'Gerätetyp' with 'EA15' selected, 'User' with 'Admin' selected, and 'Password' which is empty. Below the password field is a checkbox labeled 'Remember user' which is unchecked. At the bottom of the form are two buttons: a teal 'LOGOUT' button and a grey 'Cancel' button. A hand cursor icon is pointing at the 'LOGOUT' button, with the word 'CLICK' written in a handwritten style above it. At the very bottom of the window, there is a teal footer area with white text: 'Please log in to use the functions of inTouch to be able to use the functions. To remain logged in, tick the "Remember user".'

Fig. 31: LOGOUT window

## Change password

Passwords cannot be changed directly with the inTouch software. Passwords can only be changed in the device itself.

## 2.3 Settings

In the pop-up window there are several drop-down menus with which various basic settings for the inTouch software can be made.

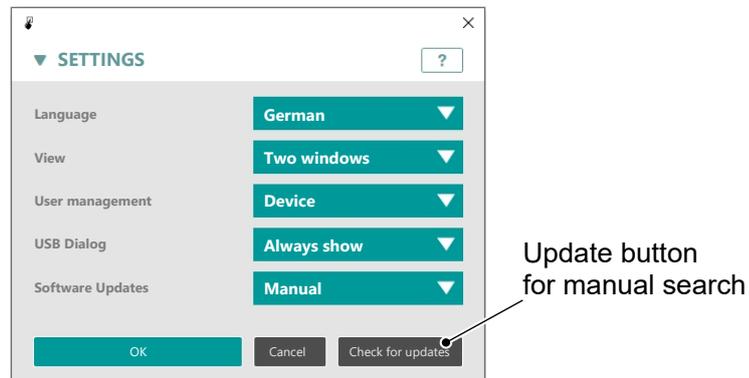


Fig. 32: SETTINGS

### Language

**NOTICE!** The language setting only takes effect when the software is re-started.

Automatic	The programme language is automatically set to 'German' or 'English' depending on the system language.
German	The programme language is fixed.
English	

### View

Two windows	The programme works with up to two parameter windows.
Single window	The programme works with one parameter window.

### User administration

Device	The users and passwords are taken over by the device.
inTouch	The user administration of the inTouch software is active.

### USB Dialog

Always show	Die Geräteauswahl wird beim USB-Dialog angezeigt.
Show if required	The unit selection is not displayed if only one unit is connected.

### Software updates

Automatic	Each time the programme is started, it automatically searches for an update. A manual search is also possible.
Manual	The search for an update is carried out manually with the Update button.
Deactivated	The search for an update is deactivated.

## 2.4 System

Parameter sets and unit data can be saved as \*.cfg files. This is done via the system menu.

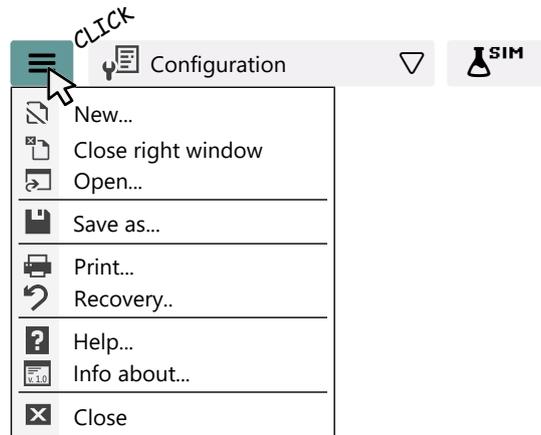


Fig. 33: SYSTEM Pull down Menu

### Pull-down Menu

-  • With the function 'New...' all windows can be closed in order to read in new data.
-  • The function 'close right window' closes the right window.
-  • With the function 'Open...' a \*.cfg file can be opened.
-  • With the function 'Save as...' all programme data can be saved on any storage medium in \*.cfg format. With the functions 'Save as...' and 'Open' a session can be saved and resumed at a later time.
-  • With the function 'Print', a unit documentation for the active window can be printed or a \*.pdf file can be generated with a suitable printer driver.
-  • The 'Recovery' function can be used to restore the parameterization to the status at the time of delivery. This requires an internet connection.
-  • The function 'Help' opens the pdf file of this manual.
-  • With the function 'Info about...' the start screen is displayed.
-  • The 'Close' function ends the programme.

### 2.4.1 Recovery function



#### NOTICE

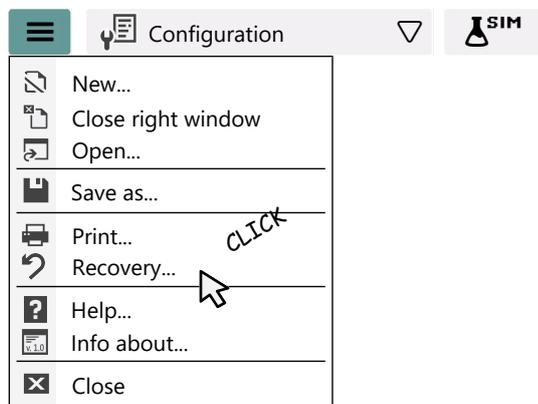
##### Data backup

To save the current parameterisation, first read out the parameters and save them. If the restoration is not successful, you can use this backup file to restore the current parameterisation.

With the 'Recovery' function, all parameters of the device are set to the factory settings. You can obtain the data required for the restore via an Internet connection. The process takes place automatically. If no file is found for any reason, it is not possible to restore this device.

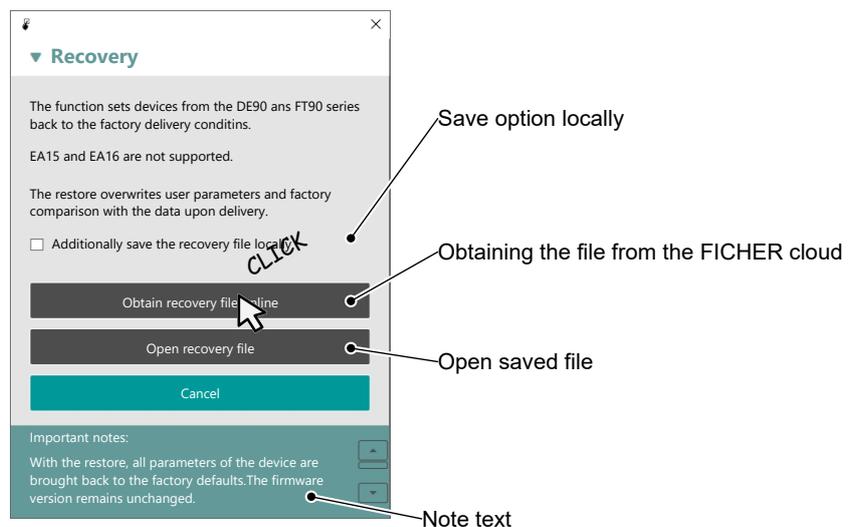
The restore file only works with the associated device. It is not possible to reset other devices with the file, as the assignment is made uniquely via the serial number.

Please note that 'Recovery' does not make any changes to the firmware. It is not possible to upgrade or downgrade the firmware in this way.



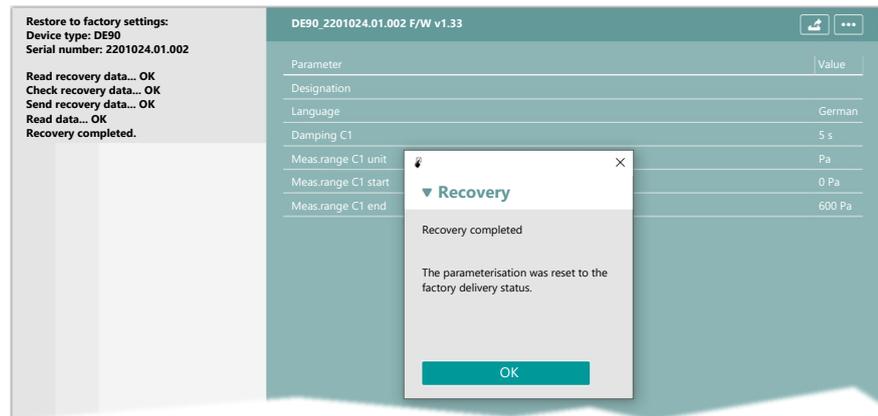
▷ To restore, proceed as follows:

1. Activate the 'Recovery' function.
2. A pop-up menu opens.



3. Activate the 'Obtain recovery file online' function. You have the option to save the file locally. To do this, please tick the box first.

- The restore is performed automatically and the following message appears after completion.



- If the option 'Save recovery file locally' is selected, the file manager opens. The path is set to the default directory<sup>(2)</sup>. However, you can select any other directory.
  - When the delivery status is restored, the parameter set of the device is also loaded into the inTouch software.
  - If the recovery is not successful, a corresponding error message is displayed.
- This completes the restoration of the factory settings.

<sup>(2)</sup> (C:\Program Files (x86)\FISCHER Mess- und Regeltechnik GmbH\inTouch\Daten)

## 2.4.2 Views

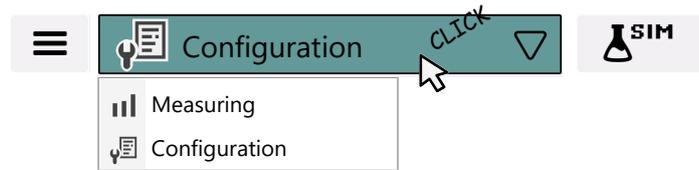


Fig. 34: Views

### Measured values

Only units of the PRO-LINE series can also be operated in measuring mode. To do this, a connection to the unit in question must first be established. This is done by loading the parameters with the import function. The inTouch software can then display the current measured values of the unit in question.

For more information, see the section Measuring data display [► 35].

### Configuration

This working mode can be used for all units. Information on parameterisation can be found in the section Configuration [► 30].

## 2.4.3 OFFLINE MODE

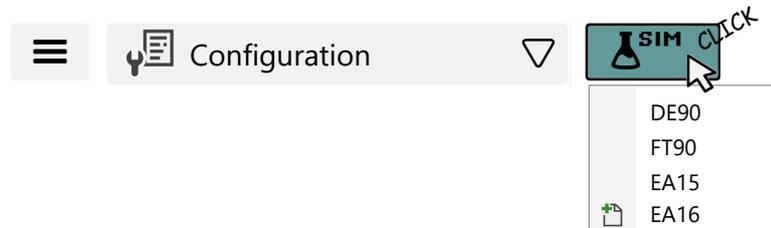


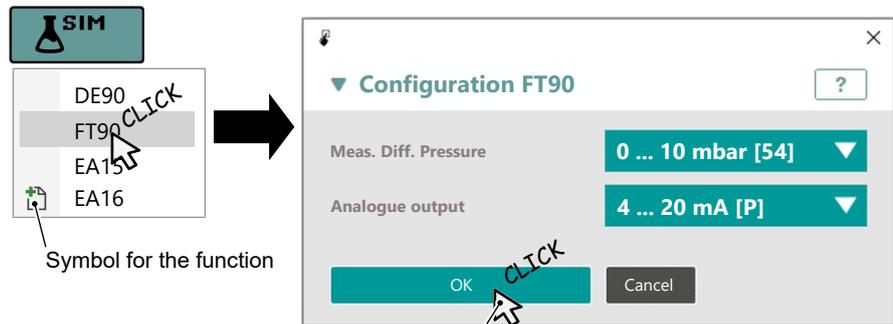
Fig. 35: Offline mode

In this mode, parameter lists can be created without the unit in question being physically connected. The parameterisation is done in the same way as with a connected unit.

The parameter lists can be saved on the hard disk of the computer or a storage medium connected via USB using the export function. This data can then be transferred to the unit at a later time. For this, it is indispensable that the unit configuration of the inTouch software matches the unit version of the hardware.

It is not necessary to connect the unit to the inTouch software, as the data can also be loaded from a USB. Conversely, it is possible to export a parameter set from a unit on site to a USB stick and edit it with the inTouch software.

Example FT90



Create parameter list

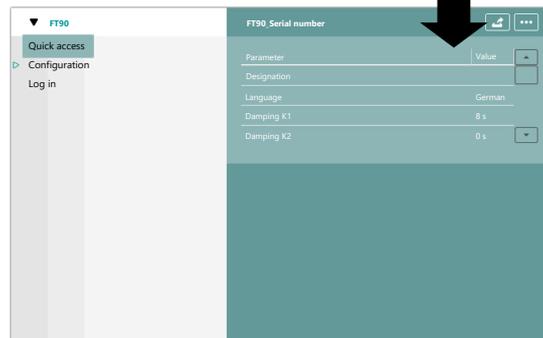
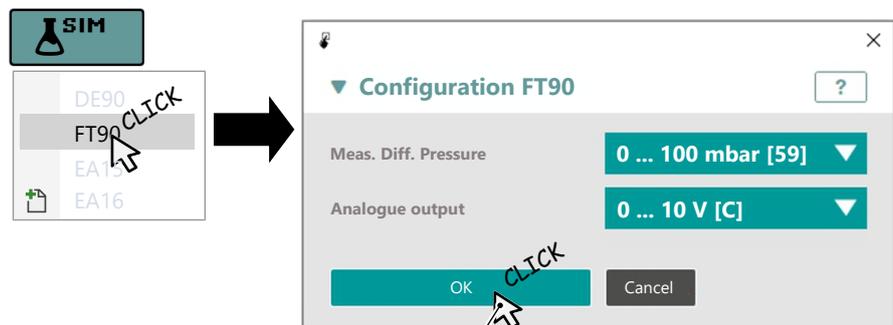


Fig. 36: Loading the parameter set of an FT90

Depending on the setting, up to two parameter sets of the same unit type can be edited. The second parameter set is loaded in the same way. The configuration can be different.



Create 2. parameter list

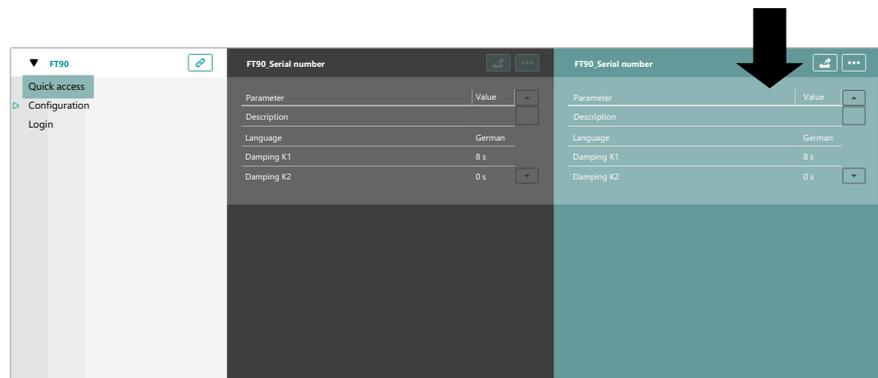


Fig. 37: Load 2nd parameter set

## 2.5 Import/Export

After the login, the parameter set of a connected device or a file can be imported. To do this, press the IMPORT button (2) in the import/export menu.

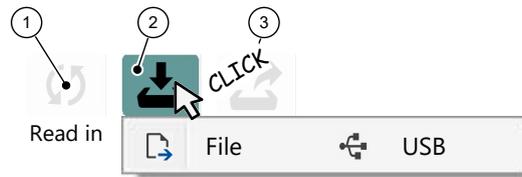


Fig. 38: Import menu

The data source (file, USB) can now be selected in the popup window that opens.

### 2.5.1 General

The imported parameters are displayed on the screen as follows.

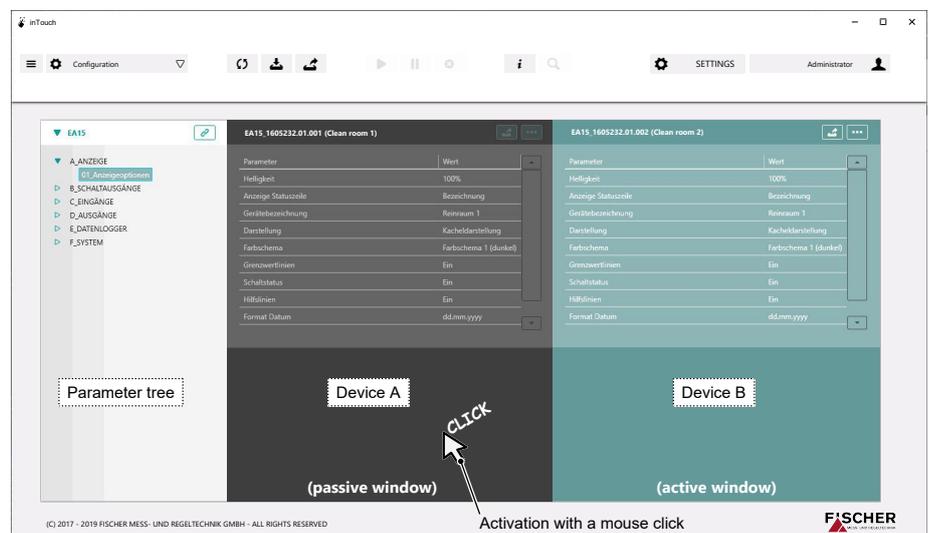


Fig. 39: IMPORT Parameter List

A maximum of two parameter sets can be displayed simultaneously. These are then displayed in two windows (active/passive). Only the parameters in the active window can be edited. A passive window can be activated with a mouse click.

The parameter tree always refers to the active window. The parameter tree is navigated using the mouse or keyboard.

If additional parameter sets are imported, these are displayed in the active window.

### 2.5.2 Import the file



The Explorer file is opened after a mouse-click on the 'file'. Here, you can select the cfg file that you want to import in the normal way. The parameters are displayed in a window after the data is imported.

#### See also

- Conventions [ 5 ]

### 2.5.3 Import from USB



A pop-up window opens with a list of the connected devices. The serial numbers of the devices are displayed to differentiate between them.

Only the devices of the type specified during registration are listed. Connected devices of a different type are not displayed.

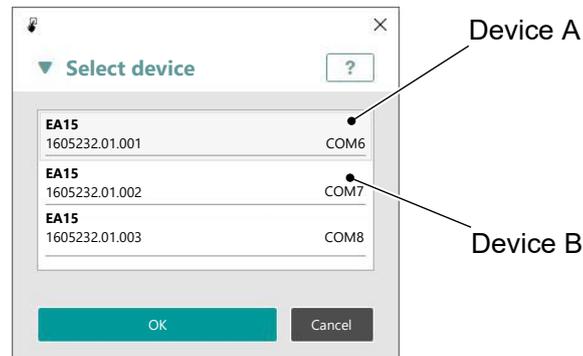


Fig. 40: IMPORT USB Popup

Select the desired device and confirm with OK. The parameter set is loaded and displayed on the main screen. Acknowledge the following message.

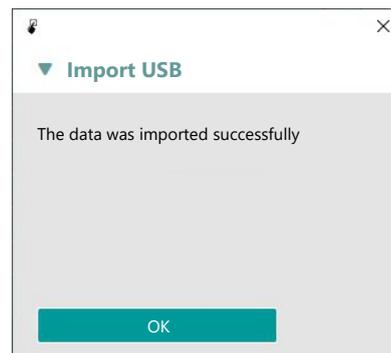


Fig. 41: Popup import message

### 2.5.4 Rescan

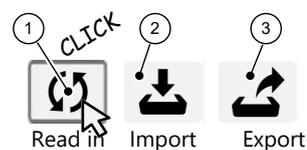


Fig. 42: Rescan function

When importing a set of parameters, the service software remembers the data source for each parameter list. The parameter set for the active window set is loaded again from its data source (file, USB) with the RESCAN function. All unsaved changes to the parameters are deleted.

## 2.5.5 Export

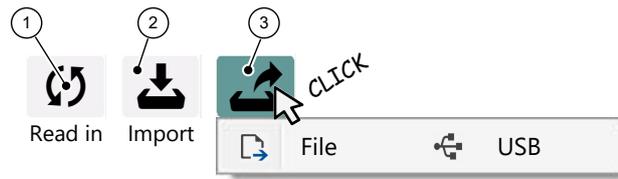


Fig. 43: Export popup data goal

After configuration, the parameter set can be exported from the active window. To do this, press the EXPORT button (3). A popup window opens, with which you can select the destination.

Once you have selected the destination, the export process starts. After the data has been transferred successfully, a corresponding message appears.

**NOTICE! Parameter changes only become effective, if they have been transferred to the device.**

If an error occurs, this is also shown. The error message will contain an indication of the cause.

## 2.6 Configuration

**NOTICE!** The explanations for the parameters are stated in the operating instruction of the respective device.

### 2.6.1 Parameter tree

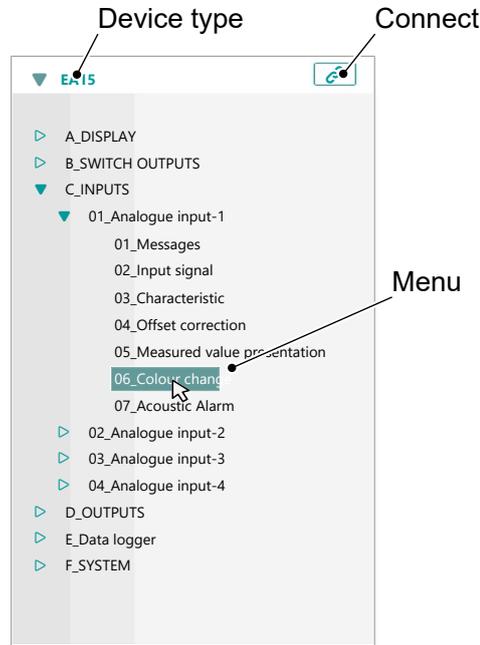


Fig. 44: Parameter tree

After the parameter set of a unit has been imported, the associated parameter tree is shown on the left side of the master screen. You can navigate through this tree in the usual way. The menus of the parameter set are shown in this tree.

The associated parameter list opens by pressing on one of these menus.

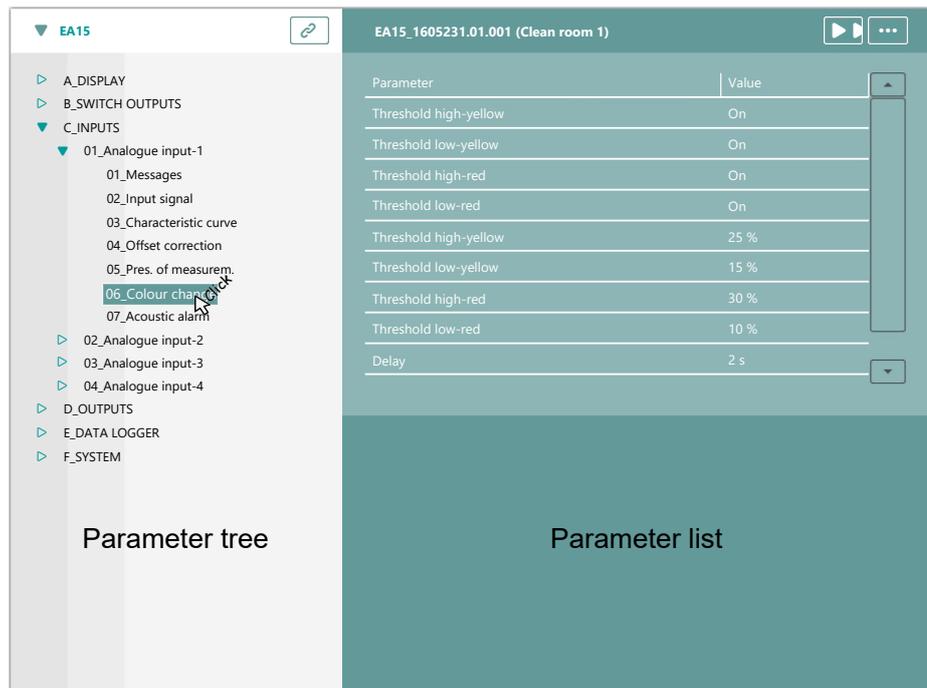


Fig. 45: Parameter tree with parameter list

Parameter sets can be shown in two windows at the same time. These windows can be connected with the CONNECT function.

Both parameter sets are shown on a green background, although the active window appears in a lighter green. Calling up a parameter list now impacts on both windows at the same time. The connection can be disconnected again with the DISCONNECT function or by pressing the CONNECT button again.

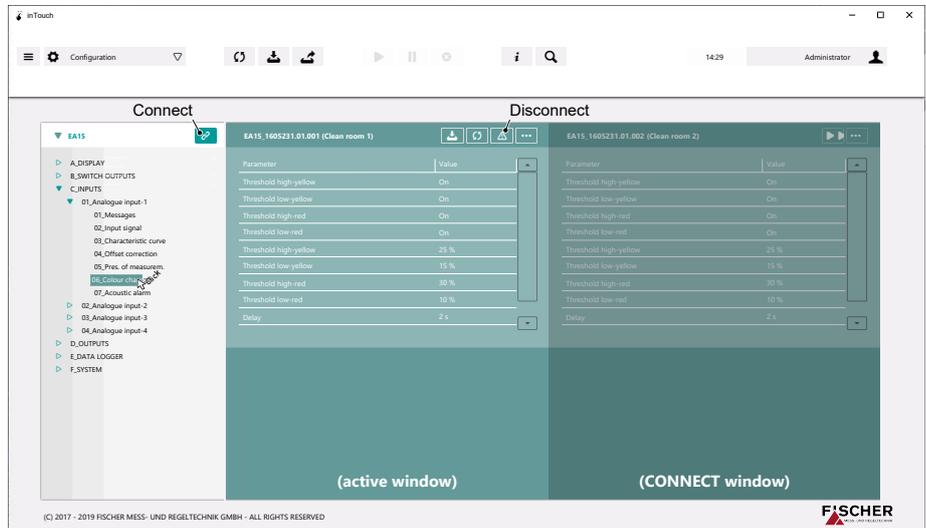


Fig. 46: CONNECT function

The function allows the parameter sets of two devices to be compared. The selection of a menu in the parameter tree causes the parallel display of the associated parameter sets of both devices. However, a certain parameter is processed independently for one device respectively.

### 2.6.2 Parameter list

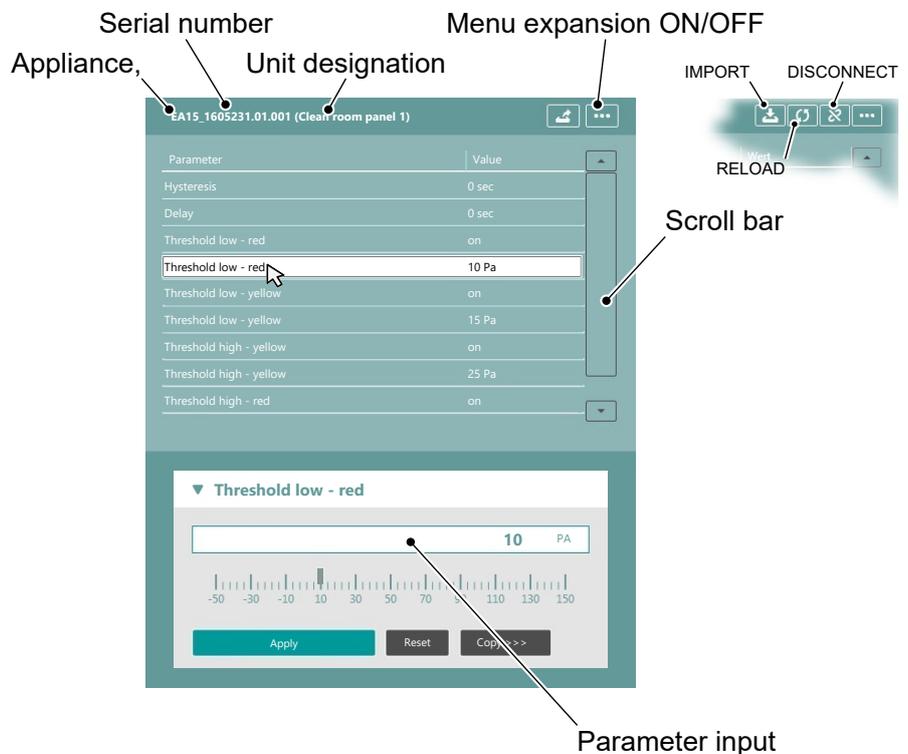


Fig. 47: Parameter list colour change

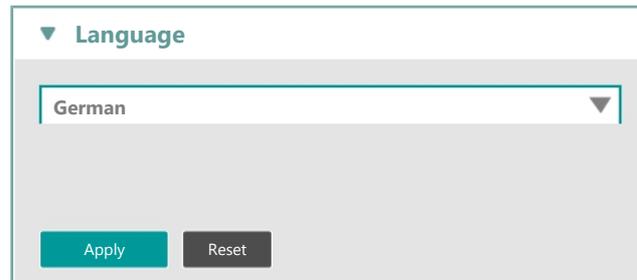
### 2.6.2.1 Enter parameters

**NOTICE! The limits of the value range for entries are accepted during import from the device.**

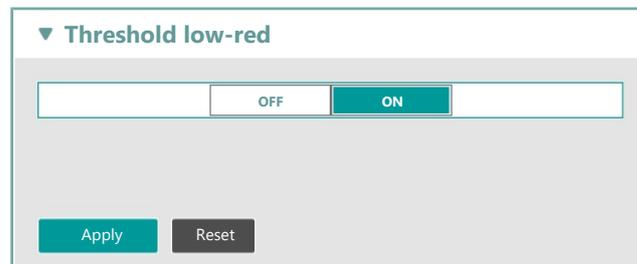
Click the parameter in the parameter list whose value you want to change. A popup window opens to entering the parameters.

The appearance of this popup window varies depending in the allowed value range. There is an input window with dropdown lists with value range scales or switching buttons for yes/no values.

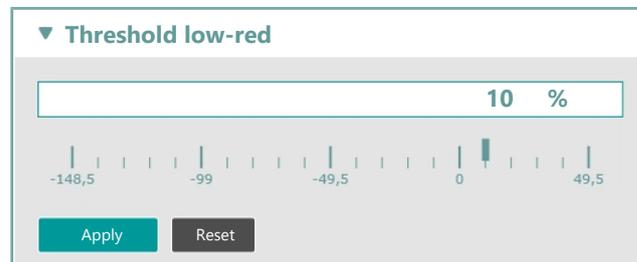
**Dropdown-list:**



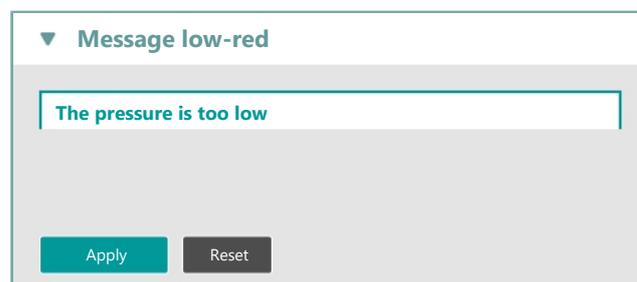
**Changeover key:**



**Value range scales:**



**Text:**



*Fig. 48:* Popup Parameter input

If the CONNECT function is used, the copy button appears in the input window. This function allows the parameter values to be transferred from one device to the other.

### Example: Threshold low - red

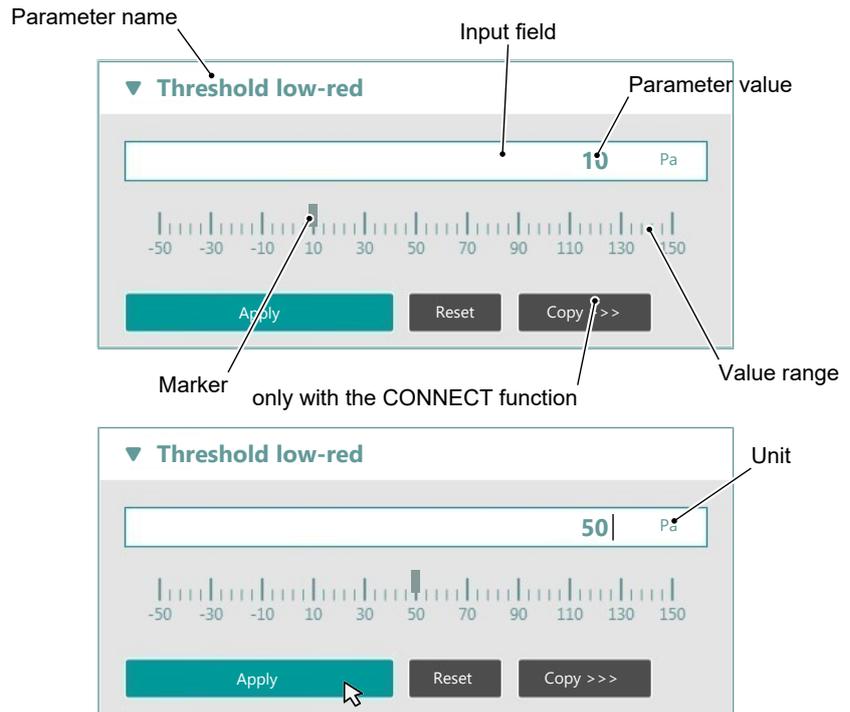


Fig. 49: Parameter input

To change the parameter value, simply click the input field and enter the new value. The marking on the scale shows the new value directly. You can move the marking with the mouse. The original value is restored by pressing the reset button.

If you want to accept the entered value for this parameter, press the same-named button. The 'Copy >>>' button allows parameter values to be copied to the parameter set of the second unit.

The plausibility of the entered values is checked. If an erroneous entry is made, the value is shown in red and the accept button is greyed out so that the value cannot be saved.

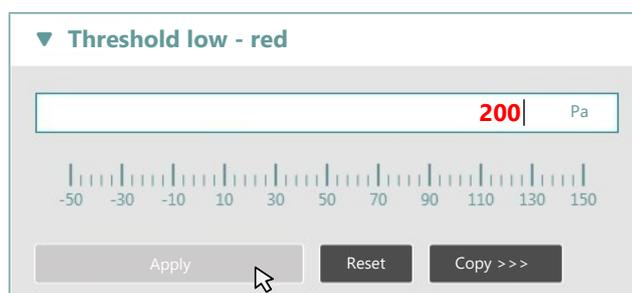


Fig. 50: Parameter input error

### 2.6.2.2 Searching parameter

**NOTICE!** The search function can only be used for EA15 and E16 units.

With the search function, a word search can be carried out in the entire parameter set of the active window. The parameters found are those that correspond to the search term orthographically and in upper and lower case. Wild-cards cannot be used.

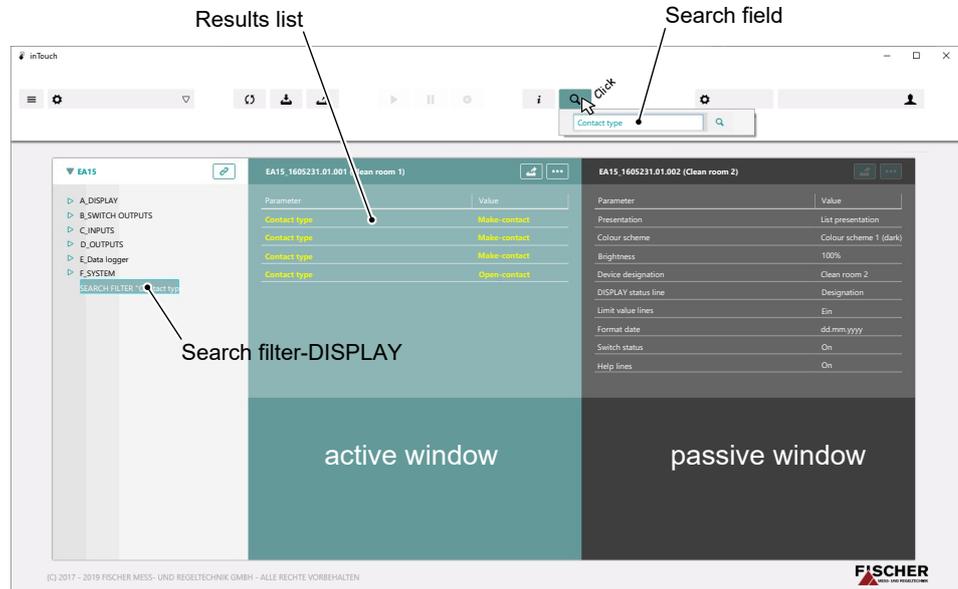
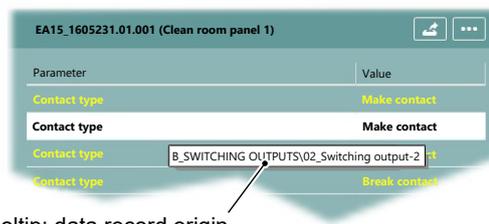


Fig. 51: Search function

The result is displayed as a list in the active window. If you move the mouse pointer over a parameter in the result list, the origin is displayed in a tooltip. In this way, parameters of the same type can be edited conveniently.



Tooltip: data record origin

Fig. 52: Search tooltip

The search filter is deleted by removing the search term from the search field and performing an 'empty' search.

## 2.7 Measuring data display

NOTICE! The following description presentation of measured values is only possible with the devices of the PRO-LINE.

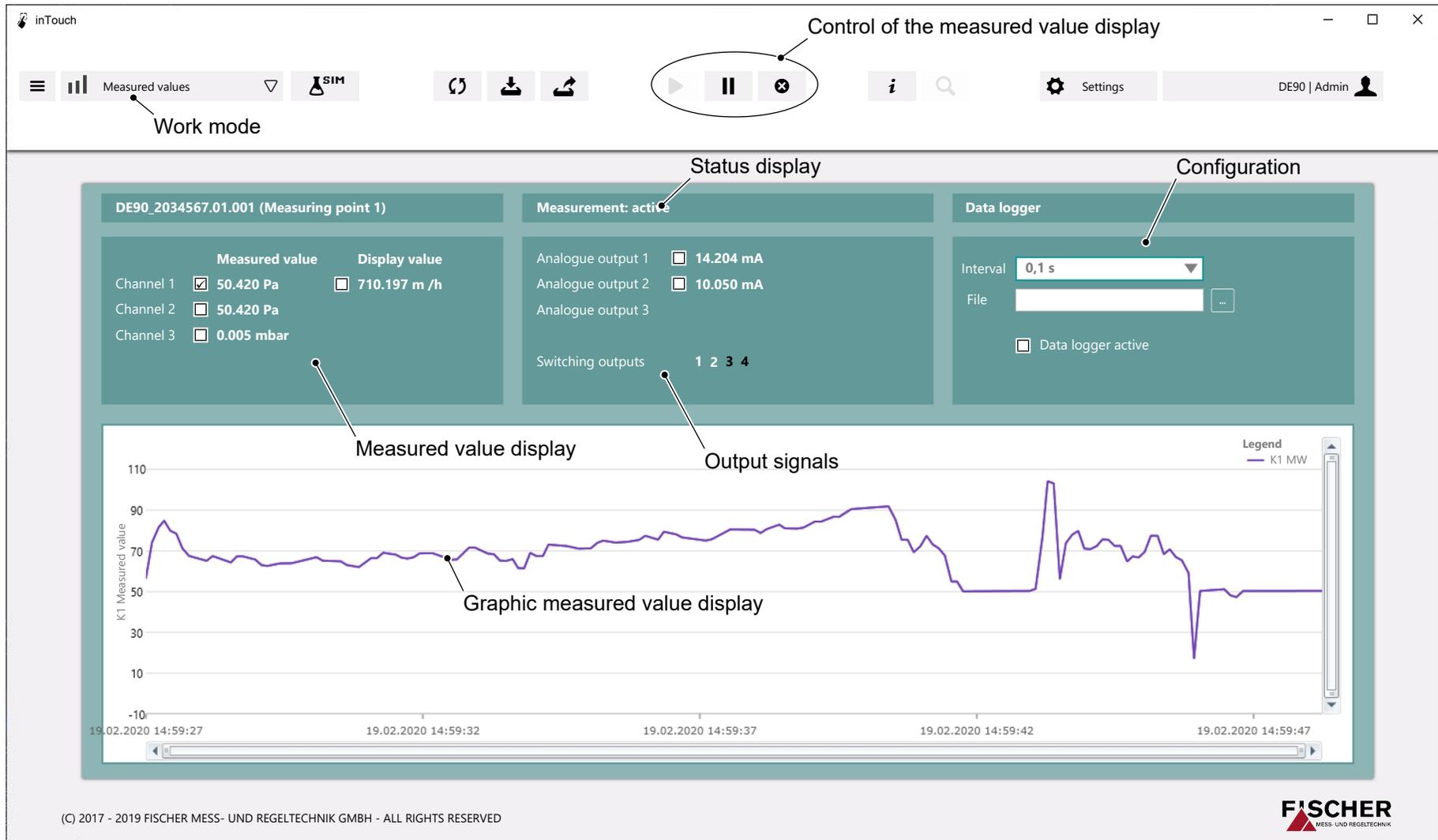


Fig. 53: Measured value display screen

### 2.7.1 Control unit

Units of the PRO-LINE® Series can be operated in the working mode 'measured values' [▶ 10]. In this mode, the measured values are read from the unit and displayed for diagnostic purposes.

The unit must be connected via a USB cable and the parameter set transferred to the inTouch service software (see chapter Configuration [▶ 30]). Then the working mode can be changed in the system menu. As a result, the measured value display appears on the screen and the ONLINE button is activated.

The congestion display of the measurement shows '**stop**'. Click on the ONLINE button to start the measurement.



The congestion display of the measurement now shows '**active**'. The current measured values are shown in the numerical measured value display and the graph of the measured values is recorded.

The PAUSE button can be used to pause the measurement. The congestion display of the measurement now shows '**pause**'. The measurement continues when the button is pressed again.



The measurement is stopped when the OFFLINE button is pressed. The graph of the measured values is only deleted when the START button is pressed again.



If the 'parameterisation' mode is changed during the measurement, the measurement is automatically stopped. The configuration is retained and the measurement can simply be restarted.

### 2.7.1.1 Navigation in the diagram

You can now zoom and move the diagram to analyse the measuring data.

Function	Keyboard	Mouse
Shift diagram	Arrow keys	Shift + left click hold and drag
Zoom up to here	Picture up key	Mouse wheel
Zoom out from here	Picture down key	Mouse wheel
Zoom area	---	Mark area.
Zoom across the scroll bar		Enlarge scroll bar
Adapt to window width	Pos1 button	---

#### Shift diagram

There are various ways to move the diagram. The following diagram provides an overview.

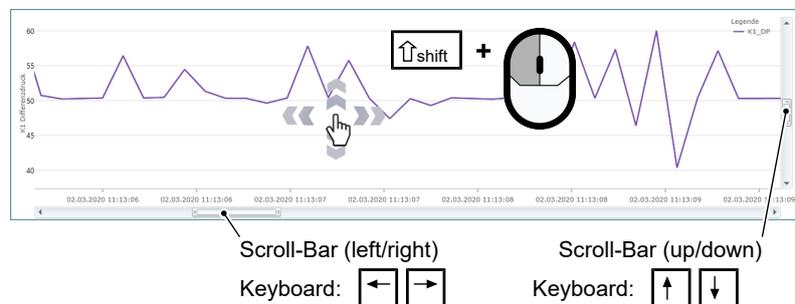


Fig. 54: PAN

- With the mouse:  
Keep the shift button pressed and click with the left mouse key onto a random point of the diagram. If you keep the mouse button pressed, the mouse pointer is shown as a hand. You can now move the diagram with the mouse. It is not necessary to continue pressing the shift button. The diagram 'hangs' onto the hand pointer of the mouse as long as you press the left mouse button.
- With the scroll bars:  
The scroll bars can be used to move the picture cut-out and therefore the diagram. The scroll bars can be moved either with the mouse or the arrow keys of the keyboard.

## Zoom diagram

There are several ways of zooming an area of the diagram.

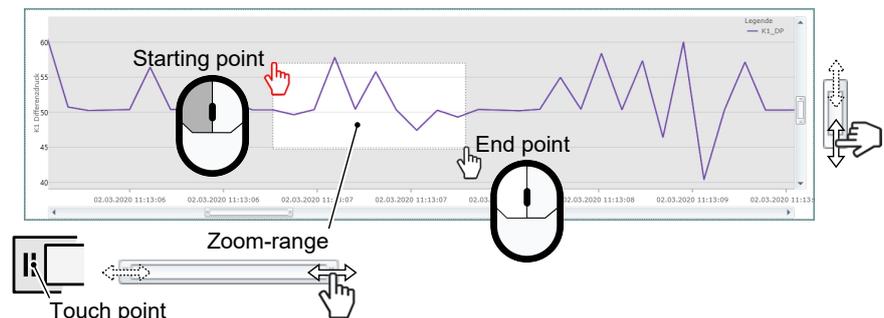


Fig. 55: Zoom

- Area selection  
A zoom range is defined by clicking on the diagram at the start point and holding down the left mouse button. Now a frame is drawn whose end point is defined by releasing the left mouse button.
- Zoom with the scroll bars  
At the end of the scroll bars are touch points with which the scroll bar can be expanded to the left or right. The opposite end of the scroll bar remains fixed at its position. In this way, the scaling of the axes and cut-out of the examined measuring curve can be defined.
- Zoom with the mouse wheel  
The zoom factor can be defined with the mouse wheel as follows.

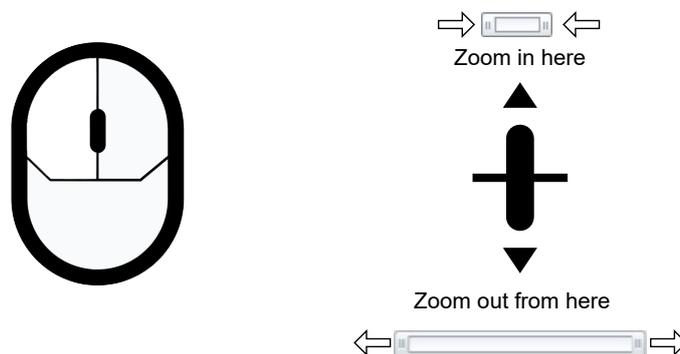


Fig. 56: Zoom with the mouse wheel

## Adapt the diagram to the window width

The diagram is adapted to the width of the window with the button Pos1 (home) on the keyboard.

### 2.7.2 Config select

Various settings can be made for the measurement:

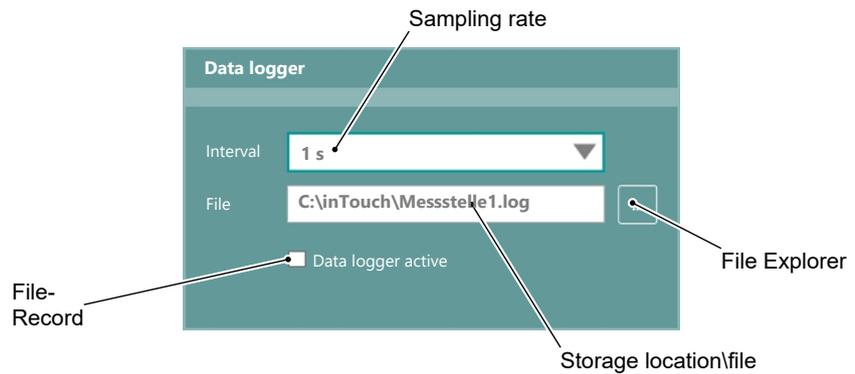


Fig. 57: Configuration

- Sampling rate**  
 The pull-down menu can be used to select the sampling rate. This value determines the time intervals at which a measured value is transmitted from the unit to the service software.
- Data logger**  
 The measured values can be saved in a text file<sup>(3)</sup>. With the button 'File Explorer' the storage location for the log file is determined.

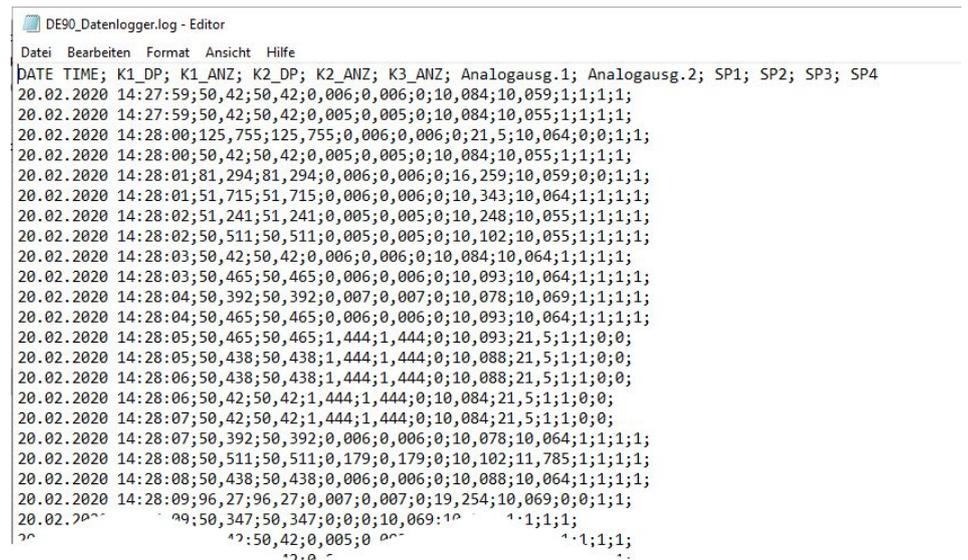


Fig. 58: Log file

<sup>(3)</sup>A semicolon is used as a separator.



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