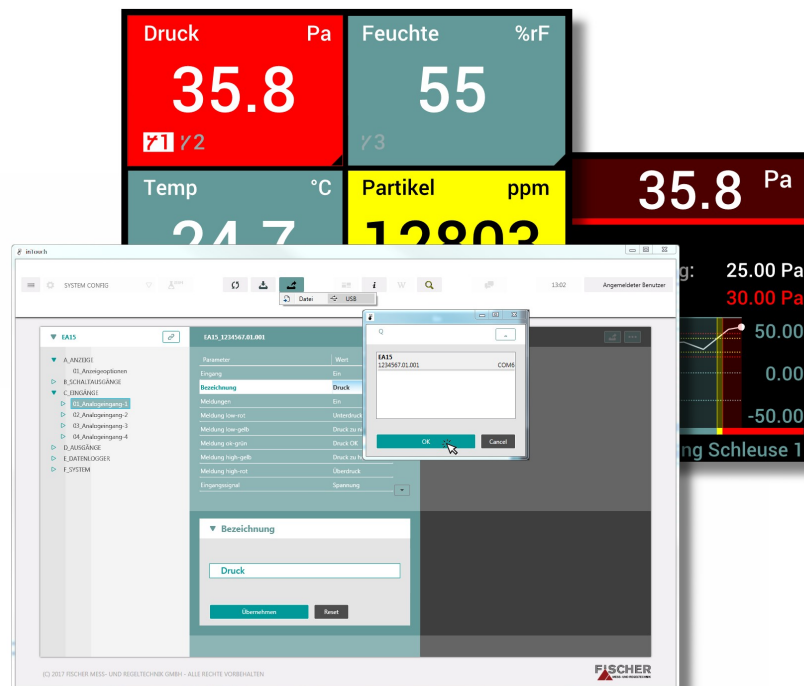
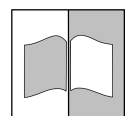




User Guide

inTouch

Service Software
for the product family
FISCHER inTouch®



Masthead

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1 First steps

1.1 Introduction

This Manual explains how you can configure 'inTouch' units of the FISCHER in touch® product family easily on your PC using the service software. The following devices are supported:

- EA 15 Measured value display
- EA16 Component for installation of the panel

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

The 'FISCHER in touch®' 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 and the data is then 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 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

The program searches for an update every time it is started. A prerequisite for this is a connection to the Internet. If an update is found, a message will appear on the screen. The update can be started or rejected here.

1.4 Connect device

To configure a unit with the PC software, it needs to be connected to the PC via the USB interface. 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.

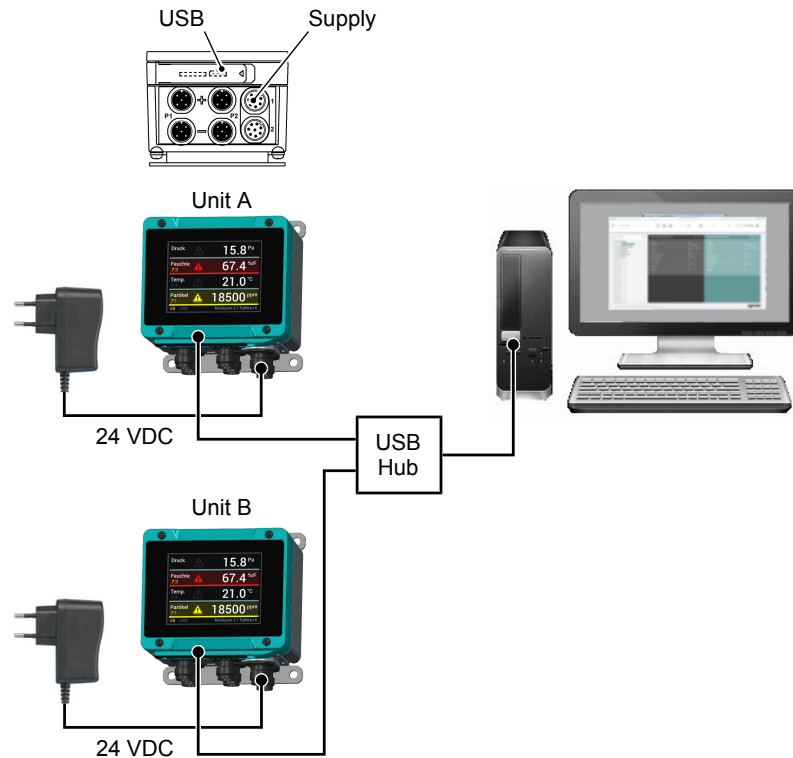


Illustration 1: Device connection (example)

1.5 Conventions

1.5.1 File types

*.itd	This file ending identifies an inTouch document. In files of this type, inTouch saves all program data in a binary format. They serve device documentation.
*.cfg	This file ending identifies a configuration file. In files of this type, the parameter set of a unit can be saved. They can be transferred to a connected unit via the export function and saved onto a USB stick. In this way, the parameter sets can be transferred to units at a different site.

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	Pull-down menu
	NEW	Master screen is emptied
	OPEN FILE	Open file
	SAVE FILE	Save file
	PRINT	Print file
	CLOSE SOLUTION	Exit program
	WORK MODE	Pulldown menu
		Operation display
		Operation control unit
		Error / Maintenance
		Commissioning
	SYSTEM CONFIG	Parameters
	SIMULATION	Device simulation
	RESCAN	Reload parameter set
	IMPORT	Import parameter set
	EXPORT	Export parameter set
	ARRANGE	Arrange windows
	INFO	Show labelling
	WIKI	Access to Maja Wiki
	SEARCH	Full text search
	DIALOGUE	
	USER	User administration
	EXPAND	Menu expansion
	CONNECT	Connect parameter lists
	DISCONNECT	Release parameter lists connection

2 Software operation

2.1 General guidelines:

The content of the screens shown in the figures depends on the respective connected unit or the loaded file. EA15 has been selected as an example to explain how to operate the software. The following only describes the inTouch service software. For a description of the parameters and their functions, please see the user manual of the unit you are configuring.

2.2 Starting the software



Illustration 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.



Illustration 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])

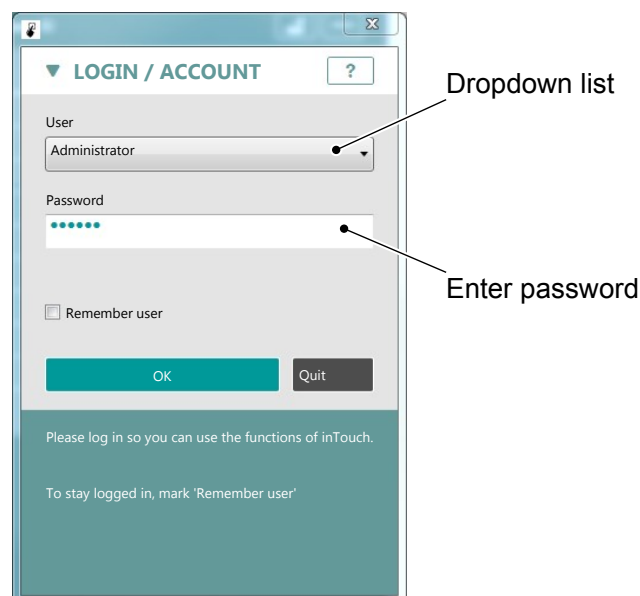


Illustration 4: Login PopUp

Select the required user type from the dropdown list. Our sales team will give you the relevant password on request. Please refer to the masthead for the contact data. It is not possible at this time to change the password.

After the login, an empty master screen appears.

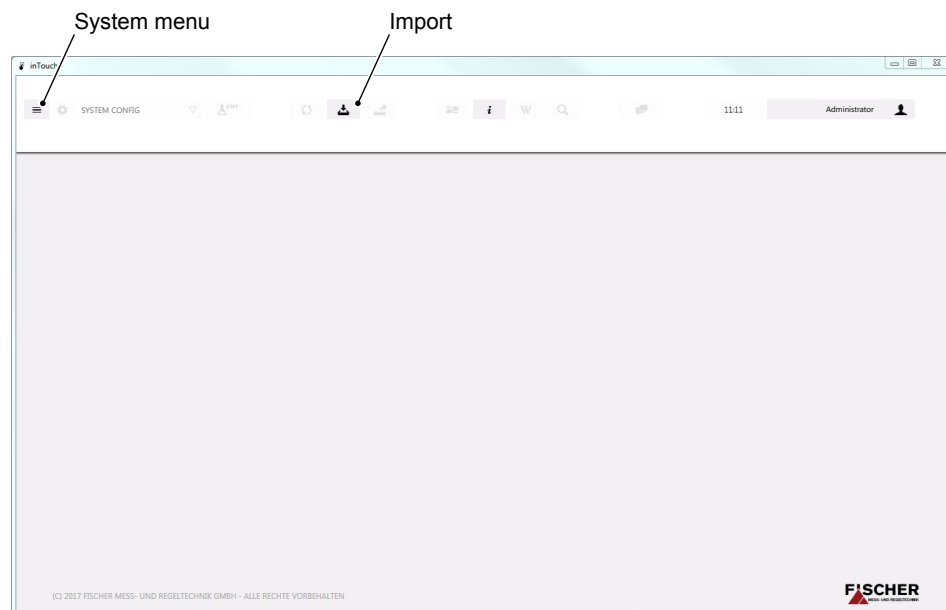


Illustration 5: Master screen after the program start

As soon as a unit is connected via the USB interface, you can load its parameter set with the Import function [► 11] for processing. Alternatively, you can also open a saved file for processing via the System menu [► 10].

2.3 Master screen

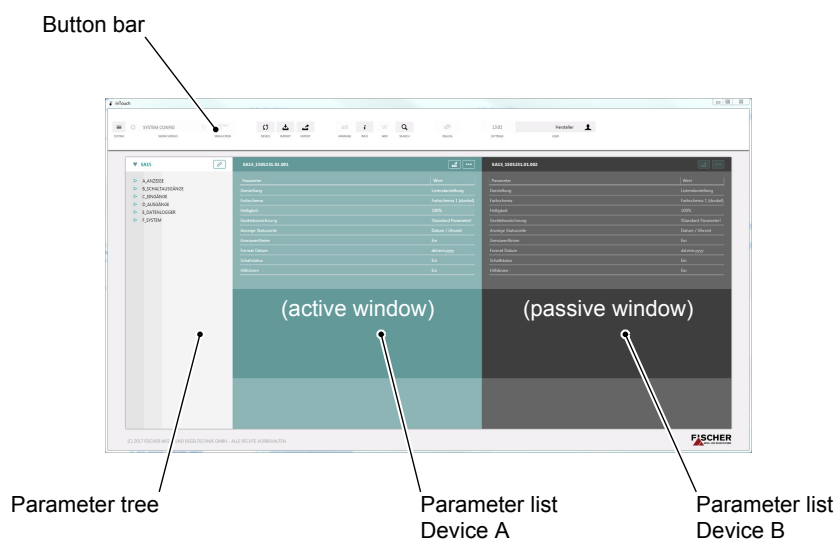


Illustration 6: Master screen with loaded parameter sets of two units

Two parameter sets can be shown at the same time. The parameter tree of the active window is shown on the left side.

2.4 Button bar



Illustration 7: Button bar

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

1. System
2. Import/Export
3. Program functions
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.



2.4.1 System



Illustration 8: System menu

1	SYSTEM	Pull-down menu
2	WORK MODE	Work mode.
3	SIMULATION	Deactivated

The SIMULATION function is deactivated and is therefore not explained here.

SYSTEM Pulldown menu

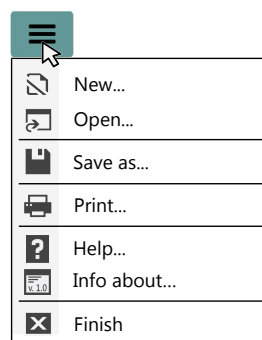


Illustration 9: SYSTEM Pulldown menu

New	All program data is deleted
Open...	An inTouch document (*.itd) is opened.
Save as...	The content is saved as an inTouch document (*.itd).
Printing	The device documentation is printed
Help	The inTouch manual is displayed
Info about...	The start screen is shown.
Finish	The program is stopped

WORK MODE



Illustration 10: WORK MODE

the work mode of the 'inTouch' service software is defined in this menu. The work mode is permanently set to SYSTEM CONFIG. In this work mode, units of the product family 'FISCHER inTouch®' can be configured. Other work modes are not implemented. Therefore the menu entry is deactivated.

2.4.2 Import/Export

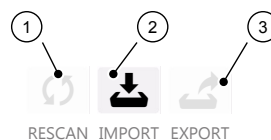


Illustration 11: Import/Export menu

1	RESCAN	Function
2	IMPORT	Pull-down menu
3	EXPORT	Pull-down menu

IMPORT Pulldown menu



Illustration 12: IMPORT Pulldown menu

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 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; these are shown in a list. To differentiate between the units, the serial numbers are listed.

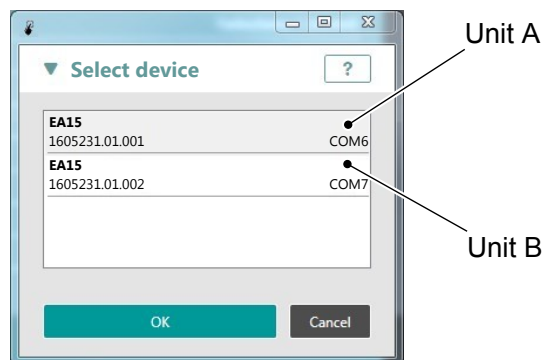


Illustration 13: Popup IMPORT USB

EXPORT Pulldown menu



Illustration 14: EXPORT Pulldown menu

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



Illustration 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 set is loaded again. All changes that are not saved will be lost.

2.4.3 Program functions



Illustration 16: Program functions menu

1	ARRANGE	Deactivated
2	INFO	Function
3	WIKI	Deactivated
4	SEARCH	Full text search

The ARRANGE and WIKI functions are deactivated and are therefore not explained here.

INFO function



Illustration 17: INFO function

the INFO function displays the labels in the button bar.

SEARCH function

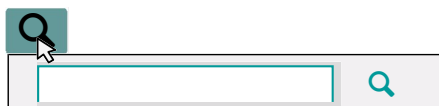


Illustration 18: SEARCH function

The SEARCH function has a full text search with which parameter names can be searched. The following conditions need to be taken into account.

- The parameter names must be written correctly.
- A differentiation must be made between upper and lower case capitals.
- The search can only be applied to the respective active window.

The found points are marked in yellow in the parameter list and the last search is shown in the parameter tree.

2.4.4 Dialog



Illustration 19: Dialog

1	DIALOGUE	Deactivated
---	----------	-------------

The DIALOGUE function is deactivated and is therefore not explained here.

2.4.5 User administration

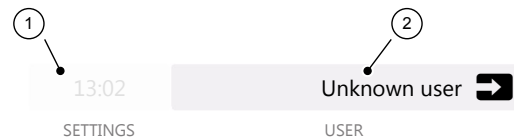


Illustration 20: User administration

1	SETTINGS	Deactivated
2	USER	Login

The SETTINGS function is deactivated and is therefore not explained here.

USER function



Illustration 21: USER function

The user logs in with this function. There are various user types with different rights available for selection.

User type	Rights
Unknown user	no rights
Logged-in users	Reading rights
Expert	Reading and writing rights
Administrator	Reading and extended writing rights
manufacturer	Access only for the manufacturer
Supervisor	Reading and extended writing rights, update

- To log in, select the required user type from the dropdown list and press the OK button.
- Leave the password field empty to log out. The OK button becomes the logout button; this should be pressed to log out.
- If you activate the 'Remember user', inTouch saves the login and you are automatically logged in next time the program is started.

Login

Logout

Illustration 22: Login window

2.5 Save/open file

Parameter sets and equipment data can be saved as an inTouch document (*.itd). This is realised via the system menu.



Illustration 23: SYSTEM Pull down menu

- The 'Save as...' function allows all program data to be saved in any storage medium. All parameter sets of both windows, incl. search and the associated equipment data, such as manufacturer, serial number, hardware version etc. are saved.
- The 'Open...' function allows one of these *.itd files to be opened. It is therefore possible at any time to interrupt the configuration process, to save the data and to resume the work at another location and at another time.
- All program data is deleted with the function 'New...' to allow new data to be imported.
- The 'Print' function allows a unit's documentation for the active window to be printed out or a *.pdf file to be created with a suitable printer driver.

An Example

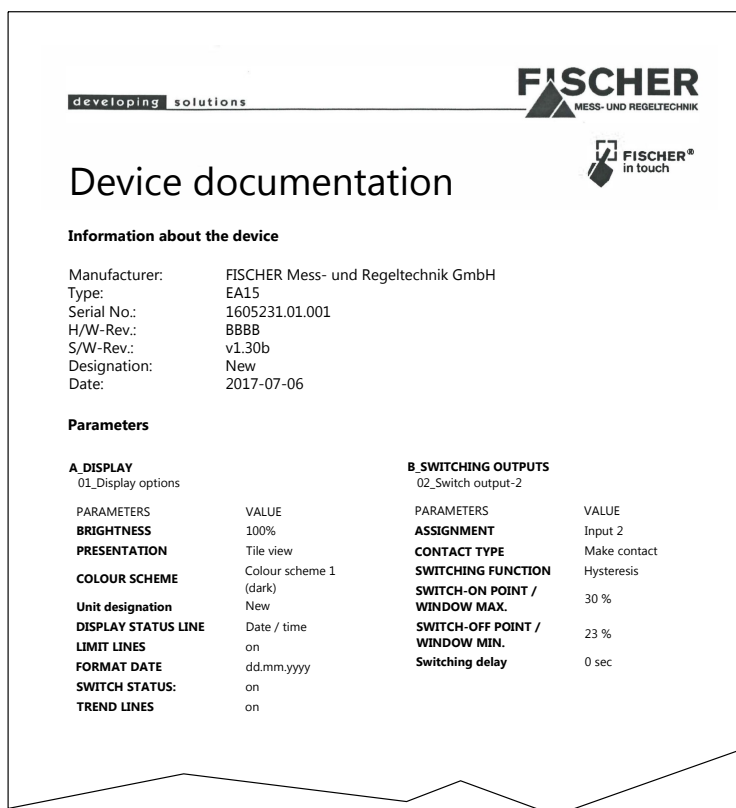


Illustration 24: Device documentation

2.6 Import parameter set

An empty master screen is opened after the program start. The Import function allows you to load two parameter sets and display them in parallel on the screen.

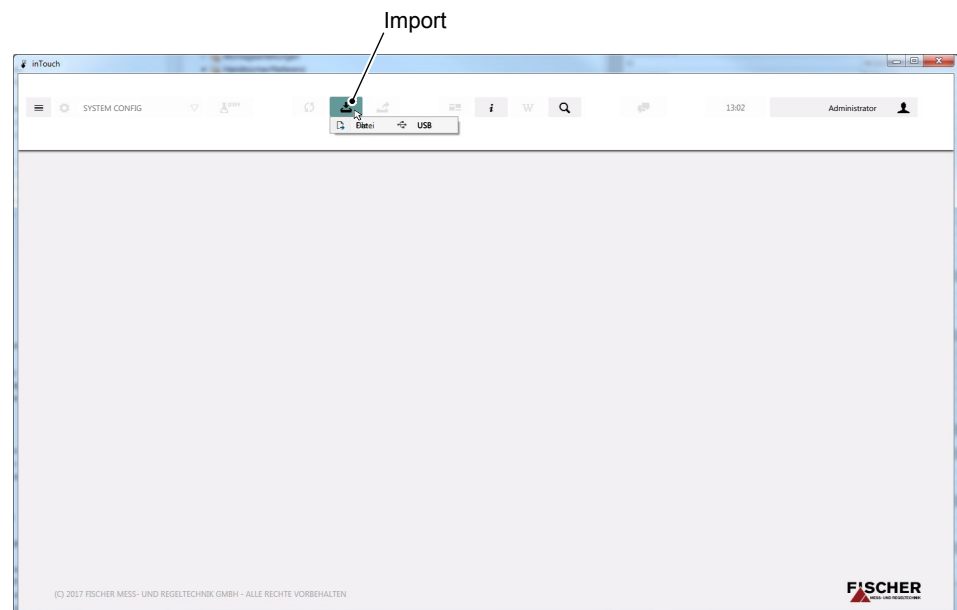


Illustration 25: Import parameters

You can access two data sources to import a parameter set.

File

The Explorer file is opened and you can select the *.cfg file you want to load. This may also be on any storage medium. 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.

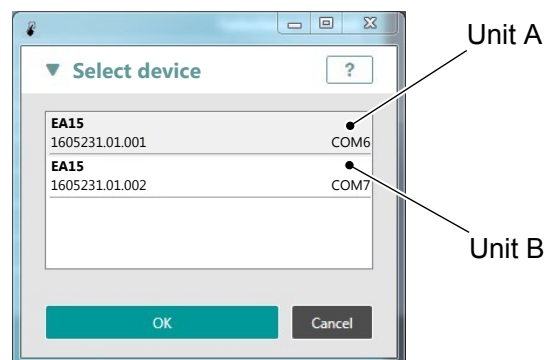


Illustration 26: IMPORT USB Popup

Select the required unit and confirm with OK. The parameter set is loaded and shown on the master screen.

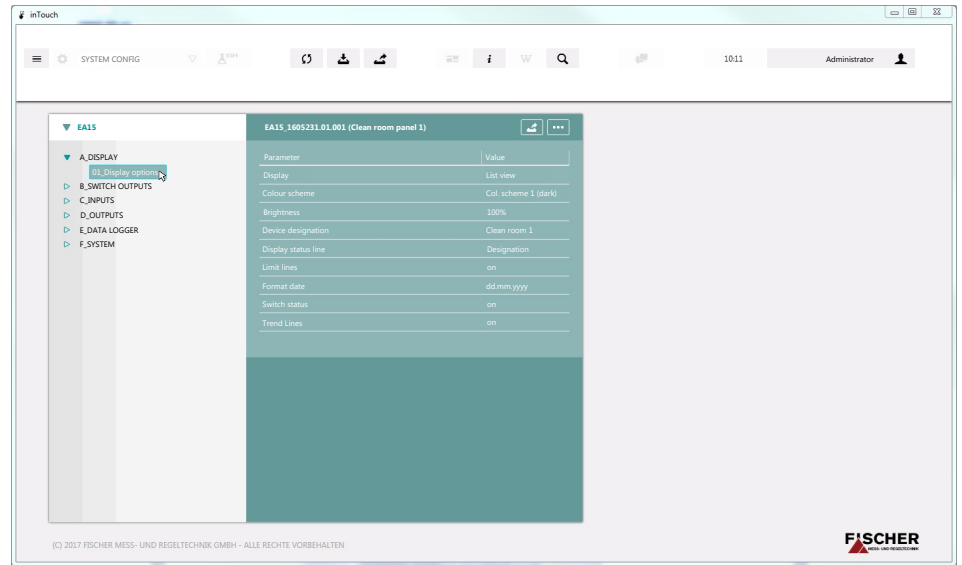


Illustration 27: Parameter list import unit A

Parameter sets from two units can be shown at the same time. Simply carry out the import a second time. The data of the second unit is exported and is also shown on the master screen.

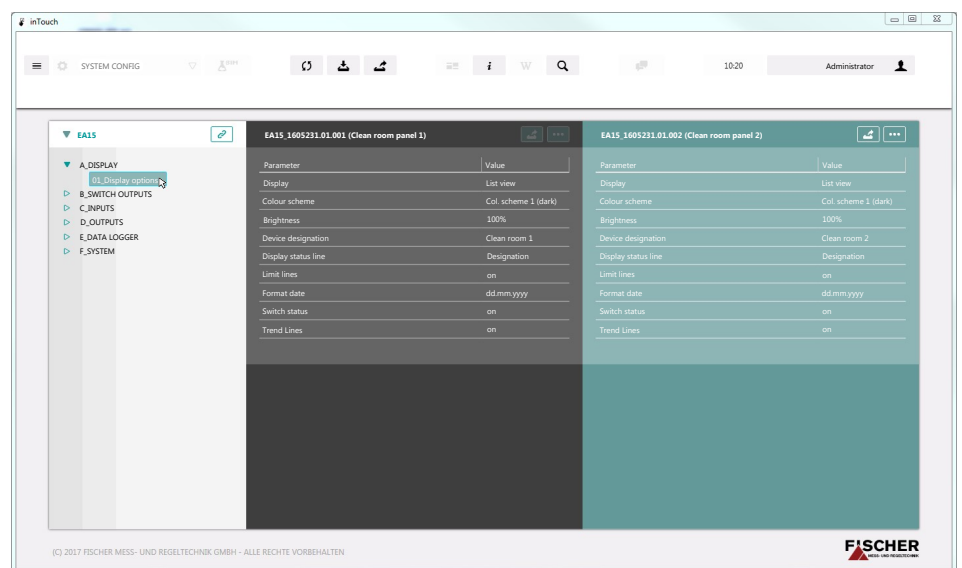


Illustration 28: Parameter list import unit B

2.7 Parameter tree

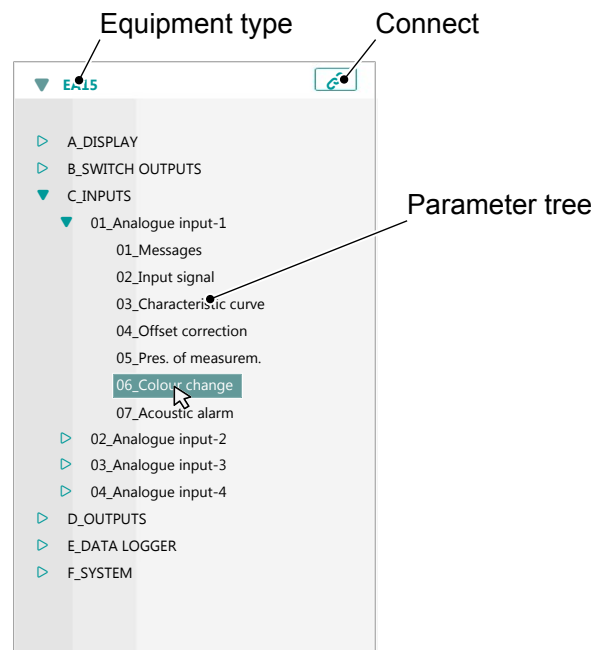


Illustration 29: Parameter tree

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.

To call up a parameter list, click the corresponding entry (e.g. Colour change). The associated parameter list opens on the right next to the parameter tree.

The parameter sets of two devices are shown at the same time, so that both 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.

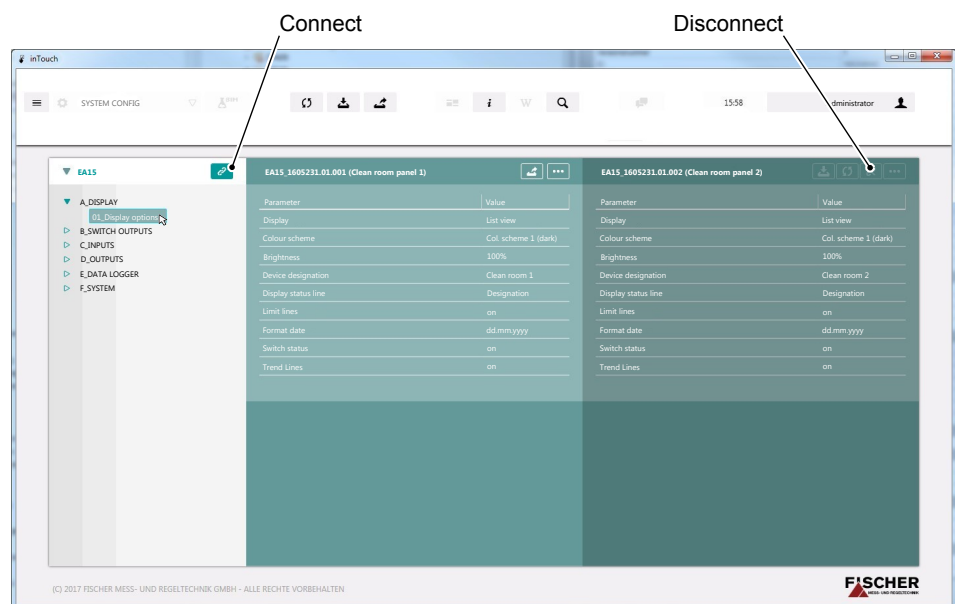


Illustration 30: CONNECT function

2.8 Parameter list

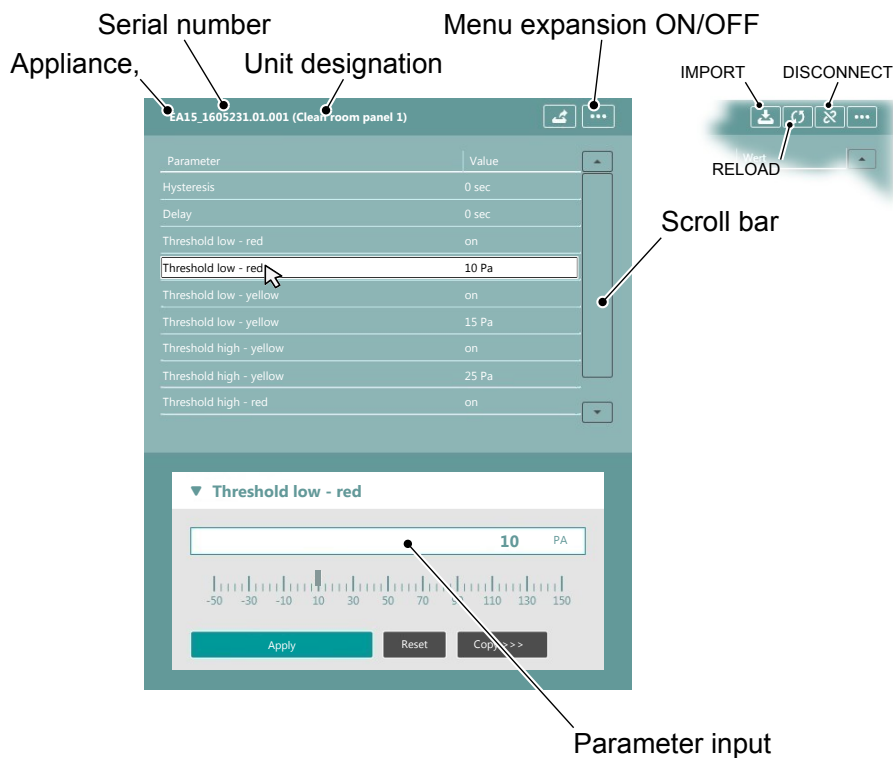


Illustration 31: Parameter list colour change

2.8.1 Enter parameters

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.

Example: Threshold low - red

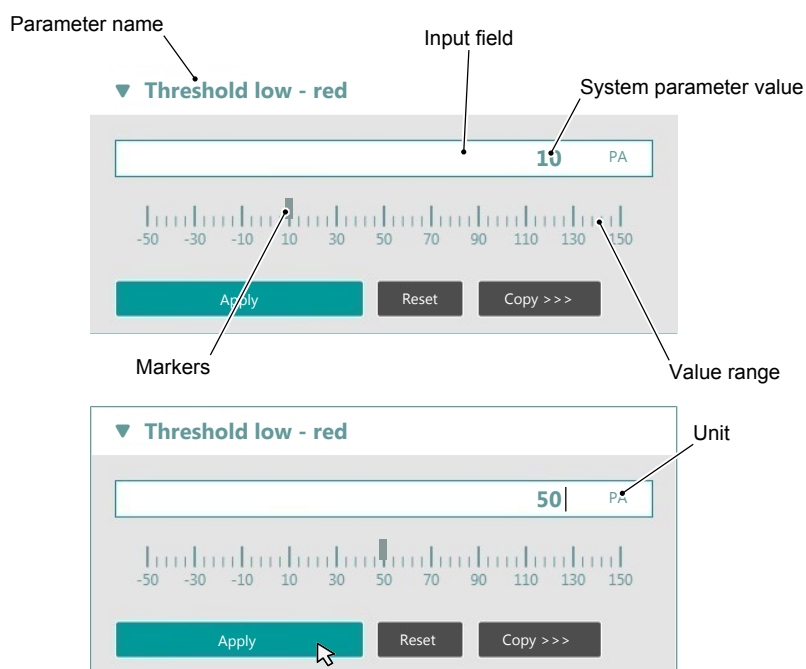


Illustration 32: Parameter input

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.

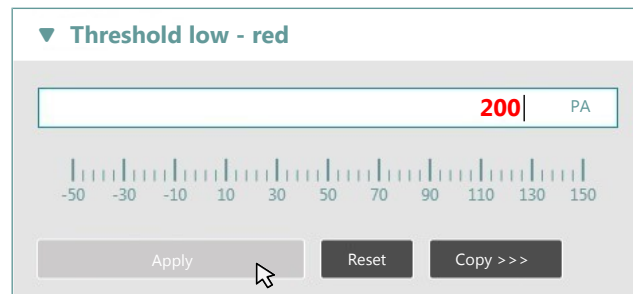


Illustration 33: Parameter input error

2.8.2 Searching parameter

The search function allows a word search within the entire parameter set of the active window to be carried out. Those parameters that correspond to the search term in terms of upper and lower case are found. Wildcards cannot be used.

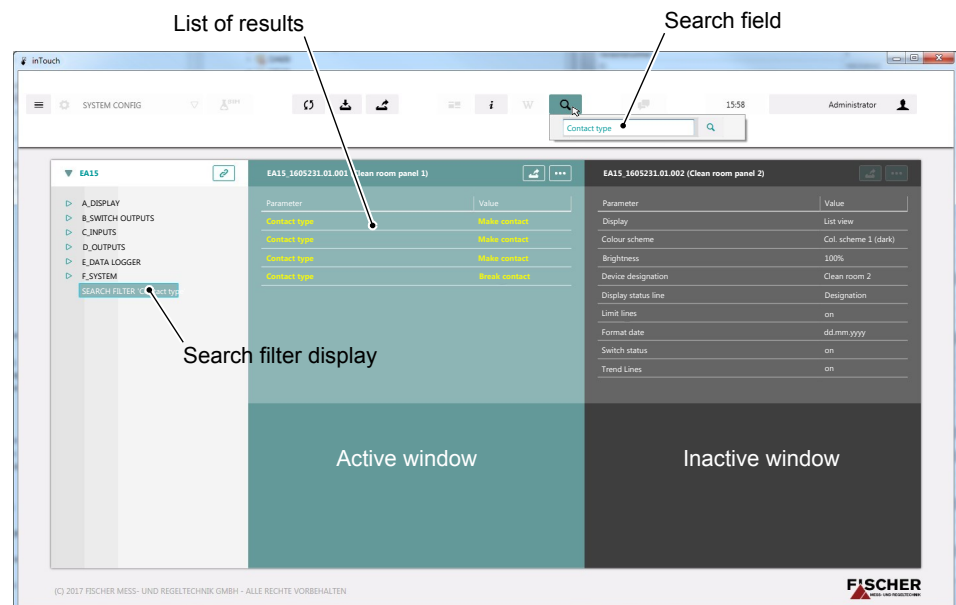
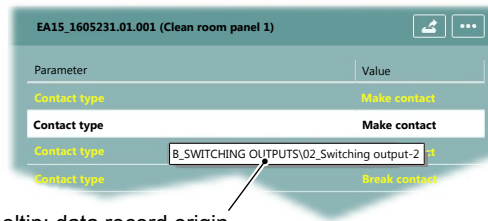


Illustration 34: Search Functions

The result is shown in the active window as a list. If the mouse arrow is moved across a parameter in the results list, the origin is displayed in a tooltip. In this way, parameters of the same type can be edited easily.



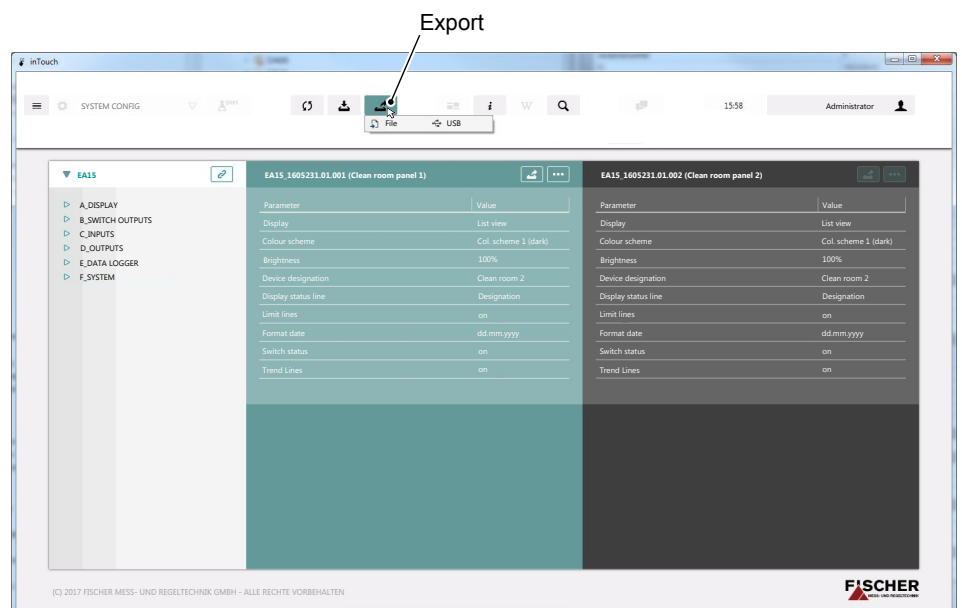
Tooltip: data record origin

Illustration 35: Search tooltip

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

2.9 Export parameter set

Once all parameters have been processed, the parameter set can be transferred to the connected unit. Alternatively, the parameter set can also be saved in a *.cfg file.

*Illustration 36: Export parameters*

File

Only the parameter set of the active window is exported. To this end, the Explorer file is opened and you can save the file as a *.cfg file on a medium of your choice. The plausibility is not checked, because this is only possible through a connected unit.

This function can also be used to save a unit's data sets before changes can be made to the parameter set.

USB

A popup window opens. Several units can be connected via USB; this is shown in a list. To differentiate between the units, the serial numbers are listed. Select the unit to which you want to transfer the parameter set of the active window.

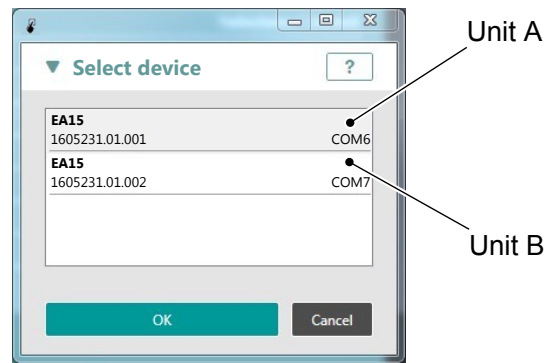


Illustration 37: IMPORT USB Popup

A plausibility check is carried out by the connected device when the data is transferred. If the unit objects to a parameter value, an error message is generated and the parameter values are marked in red in the parameter list.

An Example

This is an EA15 with a measuring range of 0 ... 80 Pa. After the configuration, the parameter set should be transferred, however an error message is generated.

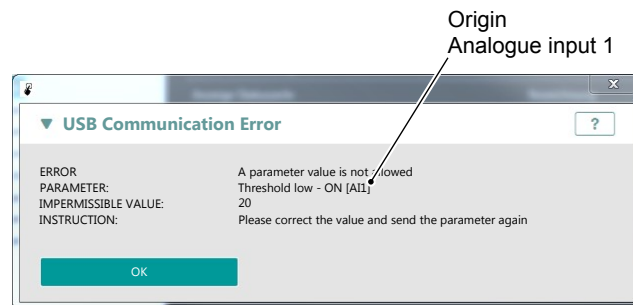


Illustration 38: Communication Error

The error message states that the parameter **Threshold low – ON** contains an unreliable value. The following options are available to find this parameter:

- You can enter this parameter name into the search field
- You navigate the parameter tree for the analogue input 1 and check the parameter list here for red entries.

When checking the parameter lists of analogue input 1, several parameters were identified during the plausibility check whose values are erroneous and marked in red. In this check, the threshold values are compared with the measuring range that was stated in the characteristic curve parameter list.

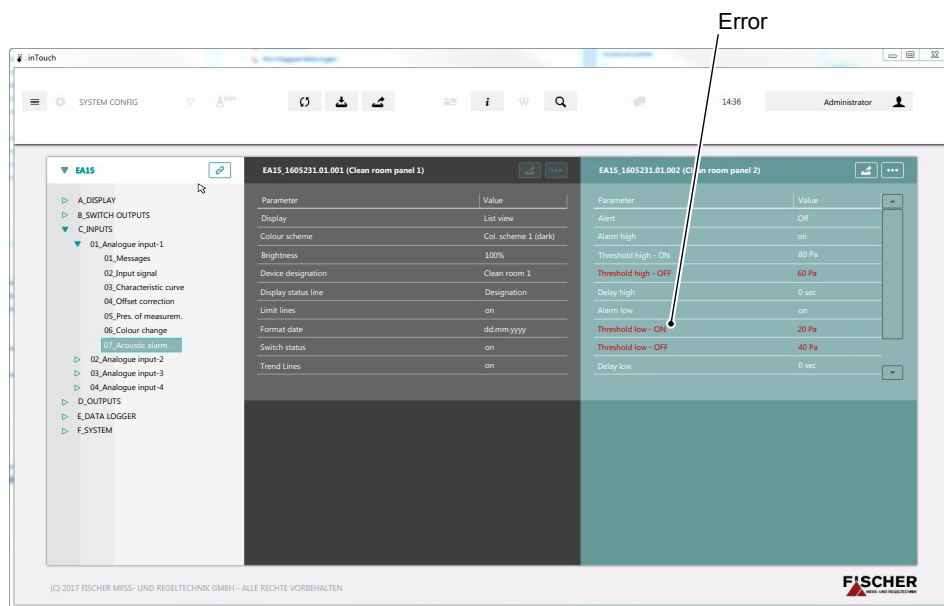


Illustration 39: Communication Error parameter lists

Because all threshold values appear to be marked in red, it is safe to assume that the error occurred when the measuring range was entered.

Checking the measuring range in the characteristic curve parameter list of analogue input1 results in the following parameter value for the measuring range start:

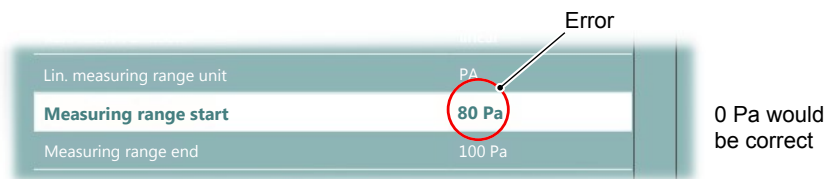


Illustration 40: Inputs/characteristic curve

After correcting this parameter value, the parameter set could be transferred successfully into the connected unit in this example.

