

# Manual for Smartreader Web App

- Original Manual -

	TTX Smartreader 0	Configuration
Device Status	Device Status	
Settings	CPU Temperatur:	67°C
Global Settings	RFID Temperatur:	30°C
Reading	Network Connection:	Online
Backup	RFID Connection:	Offline
Tests	DB Connection:	Not Monitored
User Management	Device Time:	25-07-2022 08:34:26
Device Informations	1	
Admin Config	1	
Logout	1	
	1	

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### **Table of contents**



# Table of contents

1	Introduc	tion	3
2	Overvie	N	4
2.1	Navigatio	n	4
2.2	Settings		5
2.3	Notificatio	ns	6
2.4	Dialogues		6
3	Reader I	nformation	7
4	Reader \$	Status	8
5	Global S	ettings	9
5.1	General.		9
	5.1.1	Reader Location Info	10
	5.1.2	Network Configuration	10
- 0	5.1.3	l ime zone	10
5.Z	Network F	ains	
6	Settings		12
6.1	Settings of	verview	12
	6.1.1	Settings overview for admins	13
6.2	Main Sett	ings	14
6.3	Interface	Settings	15
6.4	I/O Setting	gs	16
	6.4.1	Trigger Settings	16
	6.4.2	RFID Read Settings	18
	6.4.3	RFID Filter Settings	19
	6.4.4	Tag Buffer / Heartbeat Settings	21 22
	645	Tay Dullet Dala	۲۲ دد
	646	EPC Manipulation Setting	25
	647	File Settings	20
	648	Database Settings	27
6.5	Backup S	ettings.	
6.6	Monitoring	a Settings	30
	6.6.1	Mail Settings	31
	6.6.1.1	Mail Placeholder	33
6.7	Authentifi	cation Settings	34
6.8	Settings H	listory	35
7	Reading		36
8	Backup.		37
9	Tests		38
9.1	I/O Tests		38
	9.1.1	Output Test	38
	9.1.2	Input Test	39
9.2	Antenna 7	Tests	41
10	User Ma	nagement	42
10.1	Users.	-	42
	10.1.1	Edit User	43
	10.1.2	Change Password	44
10.2	Admin	/ Edit User Management Functions	45
40.0	10.2.1	Add User	
10.3	Setting	S	47
11	Login		48
11.1	Login v	vith new user	49

### Introduction



### **1** Introduction

This manual is for the THERMOTEX Smartreader web application.

# A compatible reading system with a running THERMOTEX Smartreader application and a network connection is required for use!

Compatible systems are:

- THERMOTEX UHF Long-Range Reader/Writer SIL-9400-MUX4 (#23746)
- THERMOTEX UHF Long-Range Reader/Writer SIL-9400-MUX8 (#23733)

To access the THERMOTEX Smartreader web application you need to enter the IP address of the reader into your browser.

There are 2 ways to access the device-specific configuration page / firmware management of the RFID device:

- 1. Select the Admin Config menu item from the main menu
- 2. Via the address IP address/config.html

The use of this configuration page is usually not required and is only needed in case of a firmware update. All necessary settings can be made directly in the THERMOTEX Smartreader web application.

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When you reload a page, the entire application is reloaded

The application is optimised for use on a desktop computer.

The application may not be fully displayed on mobile devices.

If you need additional help or support to this manual, please contact the technical hotline of THERMOTEX Nagel GmbH.

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### 2 Overview

#### 2.1 Navigation

	TTX Smartreader Configuration
Device Status	Settings Overview / Main Settings (TestSetting) / IO Settings / Trigger
Settings	Trigger RFID Read RFID Filter Tag Buffer / Heartbeat Output Settings EPC Manipulation File Settings DB Settings
Global Settings	
Reading	Input Trigger Digital Output Trigger
Backup	Input Interface: Digital Input
Tests	☑ Use start read Trigger Output 2: Tag detect v □ Reverse V
User Management	Input Channel: Digital Input 1  V Output 3: Nothing  V Reverse 2
Device Information	Trigger Character: 1 Output 4: Nothing ~ Creverse
Logout	Use retrigger
1	<ul> <li>Use end read Trigger</li> <li>Input Channel: Digital Input 1 ~</li> <li>Trigger Character: 0</li> <li>Use data output Trigger</li> <li>Input Channel: Digital Input 2 ~</li> <li>Trigger Character: 1</li> <li>Apply Changes</li> <li>Back</li> </ul>

#### 1. Main Menu

On the left side is the main menu. All main functions can be called up via this menu. The active menu is highlighted in blue.

#### 2. Submenu

On some pages there is a submenu. This is represented by a row of buttons at the top of the content. By pressing the buttons, you can navigate to the desired page / function. The active submenu is highlighted in blue.

#### 3. Breadcrumbs

The Settings page has a breadcrumb menu. This shows the call-up levels. The breadcrumb menu can be used to navigate back to the selected page. The current page is displayed in blue.

#### 4. Back Button

Some pages have a back button at the bottom of the content. This can be used to navigate back one level.





### 2.2 Settings

	TTX Smartreader Con	figuration						
Device Status	Settings Overview / Main	Settings (TestSe	etting) / IO Setting	gs / Trigg	ger			
Settings	Trigger RFID Read	RFID Filter	Tag Buffer / Hear	tbeat	Output Settings	EPC Manipulation	File Settings	DB Settings
Global Settings								
Reading	Input Trigger				Digital Outp	out Trigger		
Backup	Input Interface:	Digital Input	~		Output 1:	Reading ~	Reverse	
Tests	Use start read Trigger				Output 2:	Tag detect ~	Reverse	
User Management	Input Channel:	Digital Input 1	~		Output 3:	Nothing ~	Reverse	
Device Information	Trigger Character:	1			Output 4:	Nothing ~	Reverse	
Logout	Use retrigger				Tag Detect /	No Tag pulse time: 25	0 ms	
	Input Channel:	Digital Input 1	~		Tag Detect /	No rag puise time. 20		
	Trigger Character:	0						
	Use data output Trigge	r						
	Input Channel:	Digital Input 2	~					
	Trigger Character:	1						
	Apply Changes Disc Back	ard Changes						

On all setting pages where changes can be made, there are 2 buttons, Apply Changes and Discard Changes. With these you can save your changes or undo them.

### Overview



### 2.3 Notifications

	TTX Smartreader Configuration
Device Status	The clobal settinos was successfully saved.
Settings	
Global Settings	Global Settings
	TTX Smartreader Configuration
Device Status	Connection or timeout errort
Global Settings	Device Status
	TTX Smartreader Configuration
Device Status	Creating the backup can take a few minutes. The download starts automatically. Please wait
Settings	
Global Settings	Settings Overview

Above the content is a notification bar. This is not visible by default. When notification events are performed, the notification bar appears. The colour of the notification bar indicates what type of notification it is. The notification bar can be closed via the 'X' on the right edge.

Green	The green notification displays a successful action. The notification disappears automatically after 15 seconds.
Red	The red notification displays faulty actions. The notification does not disappear automatically.
Blue	The blue notification displays information's. The notification disappears automatically after the information is no longer needed.

#### 2.4 Dialogues



For all security queries, a dialogue is displayed that can be confirmed or the action can be cancelled. The appearance and position of the dialogue depends on the browser.

### **Reader Information**



### **3 Reader Information**

	TTX Smartreader C	Configuration
Device Status	Device Information	
Settings	Device Name:	SIL-9400-MUX4
Global Settings	Firmware Version:	1.14.0
Reading	Serialnumber:	20100001
Backup	Number of Antennas:	4
	Location:	Hall 2 / Entry / Box Left
lests	Application Version:	1.0.2
User Management	Webpage Version:	1.0.4
Device Information		
Admin Config		
Logout		

On the device information page, you can find the data of the device.

Device Name	The name of the device.
Firmware Version	The current firmware version of the device.
Serialnumber	The serial number of the device.
Number of Antennas	The number of antennas that the device has.
Location	The reader location information set in the Global Settings.
Application Version	The program version currently running on the device.
Webpage Version	The version of the web application currently running on the device.

### **Reader Status**



### **4 Reader Status**

	TTX Smartreader C	Configuration
Device Status	Device Status	
Settings	CPU Temperatur:	67°C
Global Settings	RFID Temperatur:	30°C
Reading	Network Connection:	Online
Backup	RFID Connection:	Offline
Tests	DB Connection:	Not Monitored
User Management	Device Time:	25-07-2022 08:34:26
Device Information		
Admin Config		
Logout		

The device status page is displayed after login. The current status values are displayed in this Interface, which were set in the monitoring settings. The current device time is also displayed. The data is updated every 5 seconds.

Online	The green online status indicates that everything is working.
Offline	The red offline status indicates that there is an error.
Not Monitored	The grey status indicates that the component is not monitored.
CPU Temperature	Displays the current CPU temperature.
RFID Temperature	Displays the current RFID module temperature.
Network Connection	Displays the status of the network connection.
RFID Connection	Displays the status of the RFID connection.
DB Connection	Displays the status of the database connection.
Device Time	Displays the current device time.

# **Global Settings**



### **5 Global Settings**

Global settings are cross-profile settings and apply to the whole device.

#### 5.1 General

	TTX Smartreader	Configuration
Device Status	Global Settings	
Settings		
Global Settings	General	ork Paths
Reading	Reader Location Info	)S
Backup	Location:	Hall 2
Tests	Process:	Entry
User Management	Description:	Box Left
Device Information	Delimiter:	
Admin Config	Preview:	Hall 2 / Entry / Box Left
Longut	Network Config	
	Use DHCP	
	IP-Address:	172.27.42.11
	Subnetmask:	255.255.0.0
	Gateway:	172.27.0.1
	Timezone	
	Timezone:	Europe/Paris ~
	Apply Changes	Discard Changes

In the general tab of the Global Settings, you can adjust the network connection, the reader locations and the time zone.

# **Global Settings**



#### 5.1.1 Reader Location Info

With the location information it is possible to define your device and its area of activity. This information can be inserted later e.g., in the mail body via placeholder.

Location	Specifies the place where the device is located.
Process	Specifies the process in which the device is used.
Description	Specifies a description of what the device does.
Divider Character	Specifies the character that will be placed between the specifications.
Preview	Specifies a preview, which is composed of the data specified above.

#### 5.1.2 Network Configuration

With the network configuration it is possible to assign a fixed IP address to your device or to have it assigned automatically (DHCP).

Use DHCP	Specifies whether DHCP is enabled. The IP address, netmask and gateway are then determined automatically. This may cause the address of the device to change after a reboot.
IP-Address	Specifies the IP Address of the device.
Sub netmask	Specifies the netmask of the network in which the device is located.
Gateway	Specifies the gateway of the network in which the device is located.

#### 5.1.3 Time zone

Time zone	Specifies the time zone in which the device is located.





#### 5.2 Network Paths

	TTX Smartreader Conf	iguration	
Device Status	Global Settings		
Settings			
Global Settings	General Network Pa	ths	
Reading	Network Access		
Baakun	Use Network Access		
Баскир	Username: adr	nin_user	
Tests	Password:	••••••	
User Management	Domain: dor	nain	
Device Information	Backup Network Path		
Logout			
	Server address:	172 27 10 28	
	Server address.		
	Shared folder / drive:	AccessTest	
	Folder path:	Backup\	Test Path Access
	Output Network Path	th	
	Server address:	172.27.10.28	
	Shared folder / drive:	AccessTest	
	Folder path:	Output\	Test Path Access
	Apply Changes Disc	ard Changes	

The network access allows saving backups as well as device outputs on a Windows device, which is located in the same network. This requires a Windows user with read and write rights.

Use Network Access	Specify whether the network access should be used.
Username	Specifies a Windows user name with read and write permissions on the target network.
Password	Specifies the password of the specified Windows user.
Domain	Specifies the domain of the target network.
Use Backup Network Path	Specifies whether the network path should be used for the external backup.
Use Output Network Path	Specifies whether the network path should be used for the file output.
Server address	Specifies the IP address of the target device where the files will be saved.
Shared folder / drive	Specifies the shared folder or drive where the files will be saved.
Folder path	Specifies the path to the folder where the files will be saved.





### 6.1 Settings overview

	TTX Smartreader Configuration		
Device Status	Settings Overview		
Settings	Settings		
Global Settings	PrimarySettings (Default)	Add new setting	Import setting
Reading	TestSetting	Edit setting	Export setting
Backup	NewSetting_20220512112333_Clone	Setting as default	Clone setting
Tests	_default (Factory setting)	Posot to factrony sotting	Settings History
User Management			
Device Information	]	Delete setting	Refresh List
Logout			

In the settings overview you can see all stored settings profiles. You can edit them using the buttons.

Add new setting	Creates a new settings profile based on _default settings.
Edit setting	Opens the interface for editing the selected settings profile.
Setting as default	Sets the selected settings profile as the default profile. The default profile is the active profile. There can only be 1 default profile.
Reset to factory setting	Resets the selected setting profile to the factory settings.
Delete setting	Deletes the selected setting profile.
Import setting	Opens the file selector where a setting profile can be selected to be imported.
Export setting	Downloads the selected settings profile.
Clone setting	Adds a new setting profile. It is based on the selected setting profile.
Settings History	Opens the settings history.
Refresh List	Refreshes the settings profile list.





### 6.1.1 Settings overview for admins

	TTX Smartreader Configuration		
Device Status	Settings Overview		
Settings	Settings		
Global Settings	PrimarySettings (Default)	Add new setting	Import setting
Reading	NewSetting_202200512112333_Clone	Edit setting	Export setting
Backup	TestSetting	Setting as default	Clone setting
Tests	_default (Factory setting)		
User Management		Reset to factrory setting	Settings History
Device Information		Delete setting	Refresh List
Admin Config			
Logout	Admin Settings		
	Reboot device Backup Device Restore Device	e	

As an admin you have additional functions.

Reboot device	Reboots the device
Backup Device	Creates a device backup file with all current data. This can take several minutes.
Restore Device	Restores a device backup and restarts the device.



#### 6.2 Main Settings

THERMOTEX	TTX Smartreader Con	figuration
Device Status	Settings Overview / Main	Settings
Settings	Description	TootSotting
Global Settings	Description.	
Reading	Start read on startup:	]
Backup	Is Primary (default):	
Tests	Apply Changes Disca	ard Changes
User Management		
Device Information	Interface Settings:	Show Settings
Logout	IO Settings:	Show Settings
	Backup Settings:	Show Settings
	Monitoring Settings:	Show Settings
	Authentification Settings:	Show Settings
	Back	

In the main settings, the name as well as the start setting can be changed. You can also navigate to all other settings from here.

Description	The name of the setting profile.
Start read on start up	Should the reading start on the device start?



### 6.3 Interface Settings

	TTX Smartreader	Configuration
Device Status	Settings Overview / M	Nain Settings (TestSetting) / Interface Setting
Settings	C Lies Ethernet	
Global Settings	Interface mode:	Host ~
Reading	Port:	2102
Backup		
Tests	Use USB	
User Management	Interrace mode:	USB-HID V
Device Information	Use Serial	
Logout	Baudrate:	9600 ~
	Apply Changes Back	Discard Changes

In the interface settings you can switch the interfaces on or off and configure them.

Use Ethernet	Specifies whether the network interface should be used.
Network Interface Mode	Selection of the network mode. Currently only the host mode is available.
Port	Specifies the port of the network over which the data can be received. Port 2101 and 46662 are reserved for internal systems.
Use USB	Specifies whether the USB interface should be used.
USB Interface mode	Selection whether USB-HID or USB-CDC mode should be used. USB-HID: Simulates a keyboard USB-CDC: Simulates a serial port If USB-CDC is selected, a baud rate must be selected
Use Serial	Specifies whether the serial interface should be used.
Baud rate	Specifies the baud rate of the serial interface.





#### 6.4 I/O Settings

In the I/O settings the input and output specific settings can be set. For example, the read settings, the input and output triggers, the data output and filters can be set.

#### 6.4.1 Trigger Settings

	TTX Smartreader Configuration
Device Status	Settings Overview / Main Settings (TestSetting) / IO Settings / Trigger
Settings	Trigger RFID Read RFID Filter Tag Buffer / Heartbeat Output Settings EPC Manipulation File Settings DB Settings
Global Settings	
Reading	Input Trigger Digital Output Trigger
Backup	Input Interface: Digital Input v Output 1: Reading v Reverse
Tests	✓ Use start read Trigger   Output 2:   Tag detect   ✓   □   Reverse
User Management	Input Channel: Digital Input 1  Output 3: Nothing  Reverse
Device Information	Trigger Character: 1 Output 4: Nothing ~ Reverse
Logout	Use end read Trigger
	Input Channel: Digital Input 1 ~
	Trigger Character: 0
	Use data output Trigger
	Input Channel: Digital Input 2 ~
	Trigger Character: 1
	Apply Changes     Discard Changes       Back

The input triggers and output triggers can be defined in the trigger settings. With the input triggers the reading and the data output can be controlled by external signals. The output triggers can control external devices during reading.

#### Input Trigger

Input Interface	Specifies via which interface the reader should listen to input triggers.
Use start read Trigger	Specifies whether the trigger for starting the read operation should be used.
Use end read Trigger	Specifies whether the trigger for stopping the read operation should be used.
Use data output Trigger	Specifies whether the trigger for outputting the read data should be used. If this trigger is active, then no data is output during reading. The read data can only be output via this trigger or the user interface.
Input Channel	The Input Channel is only necessary if the input interface is set to Digital Input. The Input Channel specifies the input port for the trigger signal.



Trigger Character	Specifies the character to check for in order to fire the trigger. The trigger character can be any alphanumeric character. With Digital Input as the input interface, however, only 1 and 0 are possible.
Use retrigger	Specifies whether the retrigger function should be used. The retrigger function enables a fixed reading time to be extended by the set reading time during reading by sending the read trigger again.

### Output Trigger

Output 1-4	<ul> <li>Specifies which trigger is to be sent via which digital output.</li> <li>The following triggers can be selected <ul> <li>Nothing</li> <li>Reading</li> <li>Tag detect</li> <li>No tag</li> </ul> </li> </ul>
Reverse	Indicates whether the output trigger should output the reverse value. By default, the output triggers are active high. But with Reverse they are active low.
Tag Detect / No Tag pulse time	Specifies the minimum pulse time of the Tag detect / No tag trigger.





### 6.4.2 RFID Read Settings

	TTX Smartreader Configuration
Device Status	Settings Overview / Main Settings (TestSetting) / IO Settings / RFID Read
Settings	Trigger REID Read REID Filter Tag Buffer / Heartbeat Output Settings EPC Manipulation File Settings DB Settings
Global Settings	
Reading	ID Number: EPC V
Backup	Session Flag: S2 v
Tests	Target: TARGET A V
User Management	Use fixed read time interval:
Device Information	Ime interval: 7500 ms
Logout	Time interval: [3500] ms
	<ul> <li>Use global power:</li> <li>☑ Use antenna 1: Power: 8 ∨</li> <li>☑ Use antenna 2: Power: 8 ∨</li> <li>☑ Use antenna 3: Power: 8 ∨</li> <li>☑ Use antenna 4: Power: 8 ∨</li> <li>☑ Use antenna 4: Power: 8 ∨</li> <li>Back</li> </ul>

In the RFID Read settings you can set which antennas read with which power, as well as the read time and the read mode.

ID Number	Specifies which ID number of the tag is to be output. Currently only the EPC number can be output.
Session Flag	Specifies with which session flag the transponders are to be read. It is possible to choose between S0, S1, S2, S3 and an alternating mode of S2 and S3. The change takes place after each antenna cycle.
Target	Specifies which target is to be used for reading. It can be selected between A and B or a special B+A mode. In this mode the first antenna cycle is read with target B and afterwards only with target A.
Use fixed read time interval	Specifies whether a fixed time is to be read. If this is not active and also the time after the last code is not active, reading is permanent.
Use time after last new code	Specifies whether an additional time should be read after the last unique code has been read.
Time Interval	Specifies the time how long should be read.
Use global power	Specifies whether all antennas should be active and have the same power. If this is not active, all antennas can be configured individually.



Use antenna 1-8	Specifies which antenna is to be used. For a 4 port device only 4 antennas are displayed, for an 8 port device 8 antennas are displayed.
Power	Specifies the power of the antenna. A power from 1 to 15 can be selected.

#### 6.4.3 RFID Filter Settings

	TTX Smartreader Configuration
Device Status	Settings Overview / Main Settings (TestSetting) / IO Settings / RFID Filter
Settings	Trigger RFID Read RFID Filter Tag Buffer / Heartbeat Output Settings EPC Manipulation File Settings DB Settings
Global Settings	
Reading	☑ Use filter      ☑ Use filter
Backup	Filter mode:     Include     V     Memorybank:     Epc     V
Tests	Vulse Prefix Mask start: 4
User Management	Prefix:     0F0A     Bit mask:     5454       Vuse Suffix     Evemple length:     24
Device Information	Suffix: 0000 Example: VYY5454YYYYYYYYYYYYYYYYYY
Logout	☑ Use filter mask     ☑ Use RSSI filter
	Filter mask start: 10 Min: -70
	Filter mask: A7BC
	☑ Use length filter
	Code length: 24
	Apply Changes     Discard Changes       Back

The RFID filters can be used to filter the transponders. They can be filtered before reading and after reading.

The pre scan filters allow only certain codes to be read. The normal filters are applied after reading to filter them before output.

**Normal Filter** 

Use filter	Specifies whether the filters should be used.
Filter mode	Specifies the filter mode. It is possible to choose between Include and Exclude.
Use Prefix	Specifies whether the prefix filter should be used.
Prefix	Specifies the prefix to filter by. Only hexadecimal characters can be entered.
Use Suffix	Specifies whether the suffix filter should be used.
Suffix	Specifies the suffix to filter by. Only hexadecimal characters can be entered.



Use filter mask	Specifies whether the filter mask filter should be used.
Filter mask start	Specifies the starting point of the filter mask.
Filter mask	Specifies the filter mask to filter by. Only hexadecimal characters can be entered.
Use length filter	Specifies whether the code length filter should be used
Code length	Specifies the length of the codes to be output.

#### Pre scan Filter

Use pre scan filter	Specifies whether the pre scan filters should be used.
Memory bank	Specifies in which memory bank of the transponder the bit mask specified below is to be searched for.
Mask start	Specifies the starting point of the filter mask.
Bit mask	Specifies the filter mask to filter by. The mask can have only an even number of digits! Only hexadecimal characters can be entered.
Example length	Specifies how many characters the example should have.
Example	Displays an example of the specified data, and visualizes where the bitmask is located in the code.
Use RSSI filter	Specifies whether the RSSI filter should be used.
Min	Specifies the RSSI minimum value. All transponders that have this or a higher value are read.





### 6.4.4 Tag Buffer / Heartbeat Settings

	TTX Smartreader Configuration
Device Status	Settings Overview / Main Settings (TestSetting) / IO Settings / Tag Buffer and Heartbeat
Settings	Triager RFID Read RFID Filter Tag Buffer / Heartbeat Output Settings EPC Manipulation File Settings DB Settings
Global Settings	
Reading	Se Heartbeat
Backup	Output Interface: Ethernet-Host ~
Tests	Time Interval: 30 s
User Management	Character: H
Device Information	☑ Use Tag Buffer
Admin Config	Time Interval: 01 h 30 m 00 s Preview: 01:30:00
Logout	<ul> <li>Reset interval on code read</li> <li>Use output trigger on blocked codes</li> </ul>
	Show Tag Buffer
	Apply Changes Discard Changes
	Back

With the heartbeat, a character can be sent at an interval via an interface to assure another system that the device is available.

With the tag buffer, read tags can be locked for a period of time and are then not output.

#### Heartbeat

Use Heartbeat	Specifies whether the heartbeat should be used.
Output Interface	Specifies the interface for the heartbeat output.
Time Interval	Specifies the time interval in which the heartbeat is sent.
Character	Specifies the heartbeat character which is sent.

#### Tag Buffer

Use Tag Buffer	Specifies whether the Tag Buffer should be used.
Time Interval	Specifies how long a code remains locked. The time interval is specified in hours, minutes and seconds. The maximum time is 60 hours.
Preview	Displays a preview of the time interval.
Reset interval on code read	Specifies whether the lock time starts again from the beginning each time a code is read.
Use output trigger on blocked codes	Specify whether the output triggers such as Tag Detect / No Tag should also be triggered for locked codes.



Show Tag Buffer	Displays the current tag buffer data.
	This is only possible with the active setting.

#### 6.4.4.1 Tag Buffer Data

	TTX Smartreader Configuration
Device Status	Settings Overview / Main Settings (PrimarySettings) / IO Settings / Tag Buffer Data
Settings	Trigger REID Read REID Filter Tag Buffer / Heartbeat Output Settings FPC Manipulation File Settings DB Settings
Global Settings	
Reading	Tag Buffer Data
Backup	Show 10 v entries Search:
Tests	Tag î⊥ Read Time î⊥ Realease Time î↓
User Management	5454011449300000002A485 05/16/2022 11:25:35 05/16/2022 11:27:35
Device Information	5454011449300000002A492 05/16/2022 11:25:37 05/16/2022 11:27:37
Logout	5454011449300000002A499 05/16/2022 11:25:35 05/16/2022 11:27:35
	5454011449300000002A4B1 05/16/2022 11:25:35 05/16/2022 11:27:35
	5454011449300000002A4B5 05/16/2022 11:25:37 05/16/2022 11:27:37
	5454011449300000002A4C0 05/16/2022 11:25:35 05/16/2022 11:27:35
	5454011449300000002A4C1 05/16/2022 11:25:35 05/16/2022 11:27:35
	5454011449300000002A4DC 05/16/2022 11:25:35 05/16/2022 11:27:35
	5454011449300000002A4DD 05/16/2022 11:25:35 05/16/2022 11:27:35
	5454011449300000002A4EC 05/16/2022 11:25:34 05/16/2022 11:27:34
	Showing 1 to 10 of 252 entries         Previous         1         2         3         4         5          26         Next
	Clear Tag Buffer Refresh
	Back

All current tag buffer data is displayed here. The tag buffer data remains available even after a restart if the device has not been off for longer than the lockout time.

Clear Tag Buffer	Deletes all tag buffer data after confirming a security prompt. All read codes are now output again.
Refresh	Updates the tag buffer data.





### 6.4.5 Output Settings

	TTX Smartreader Con	figuration				
Device Status	Settings Overview / Main Settings (PrimarySettings) / IO Settings / Output Settings					
Settings	Trigger DEID Boad		a Ruffor / Hoarthoat	Output Sottings	EBC Manipulation	
Global Settings			ig Dullel / Healtbeat	Output Settings		File Settings
Reading	Output Interface: Etherr	net-Host	~			
Backup	Output Format: File		~			
Tests	Output path: 172.27	.10.62\AccessTest\Oi	utput\ Test Path Acc	cess		
User Management	Time Format: 01-02-	2022 12:15:30.458	~	]		
Device Information	Use two char output					
Admin Config				Placebolder A		
Logout	Output string:		Ľ			
	Placeholder name	Placeholder value	Example			
	ID-Number	{ID}	0F0A311449000000	00000001		
	Antenna	{ANTENNA}	1			
	Rssi	{RSSI}	-42			
	Datetime	{DATETIME}	See the selected tim	ne format		
	Carriage return	<cr></cr>	<cl></cl>			
	Line feed	< f>	< f>			
	Carriage return line feed	<crlf></crlf>	<crlf></crlf>			
	{ID} <crif></crif>	1				
Example: 0E0A3114/40000000000000001<						
	Apply Changes Dise	card Changes				
		Laru Unanges				
	Back					

# The output settings can be used to set which interface is to be used to output the read data and in which format.

Output Interface	Specifies via which interface the data should be output. The following options are available: • Ethernet • Serial • USB-Mass storage • USB-CDC • USB-HID
Output Format	<ul> <li>The output format specifies how the data should be output. You can choose between Plain Text, File and Database.</li> <li>The formats are linked to the set interface.</li> <li>Plain text works for all interfaces.</li> <li>File only works with USB-Mass storage and Database. Database is only available with Ethernet.</li> </ul>
Output path	The output path is only visible if the output format is File! The output path specifies where the file should be saved. If Ethernet is selected, the network output path from the Global Settings is displayed here. If USB mass storage is selected, the path from the File Settings is displayed here.



Test Path Access	Checks if the path is accessible.
Time Format	Specifies how the timestamp is formatted. This is used for the placeholder in the output string and the database entry
Use two char output	Adjusts the output of the Tag ID to a 2-character format. Ex: 0F0A31144900000000000000 becomes 0F 0A 31 14 49 00 00 00 00 00 01 in the output.
Placeholder	Opens or hides the available placeholders.
Output string	Specifies how the output data should be formatted. Here you can insert placeholders and free text to format the output data. This is only necessary for Plain Text and File.
Example	Shows an example of how the data is output.





### 6.4.6 EPC Manipulation Setting

	TTX Smartreader Configuration
Device Status	Settings Overview / Main Settings (TestSetting) / IO Settings / EPC Manipulation
Settings	Trigger RFID Read RFID Filter Tag Buffer / Heartbeat Output Settings EPC Manipulation File Settings DB Settings
Global Settings	
Reading	Cut Settings
Backup	Cut amount from start: 4
Tests	Use cut from end
User Management	Cut amount from end: 3
Device Information	Add Settings
Logout	✓ Use add prefix
	Prefix: 5454
	✓ Use add suffix
	Suffix: TTX
	Apply Changes     Discard Changes       Back

#### With the EPC manipulation the Tag data can be adjusted before the output. Characters can be truncated at the front and back and extra characters can be added. The cutting of the data is executed before the adding to be able to use both at the same time.

Use cut from start	Specifies whether characters are to be truncated from the beginning.
Cut amount from start	Specifies how many characters should be truncated from the beginning.
Use cut from end	Specifies whether characters are to be truncated from the end.
Cut amount from end	Specifies how many characters should be truncated from the end.
Use add prefix	Specifies if additional characters should be added to the beginning.
Prefix	Specifies which characters should be added to the beginning.
Use add suffix	Specifies if additional characters should be added to the end.
Suffix	Specifies which characters should be added to the end.





### 6.4.7 File Settings

	TTX Smartreader Configuration	
Device Status	Settings Overview / Main Settings (PrimarySettings) / IO Settings / File Settings	
Settings	Trigger RFID Read RFID Filter Tag Buffer / Heartbeat Output Settings EPC Manipulation File Settings DB Settings	
Global Settings		
Reading	Filepath USB: /media/sda1/ output Test Path Access	
Backup	Filename: Output	
Tests	Filetype: .txt ∽	
User Management	Filename preview: Output_20221215_083937.txt	
Device Information	Use file packages	
Admin Config	Package trigger time: 0 s	
Logout	✓ Use save after time	
	Save after: 120 s	
	Use box mode	
	Apply Changes     Discard Changes       Back	

The file output settings can be used to define how and where the output file is output and when the output takes place.

The file path is only used for the USB-Mass storage, because for network output it is specified via the global settings.

File path USB	Specifies where to save the file. This is only necessary if the output interface is USB-Mass storage. /media/sda1/ is the default USB root path for all USB-Mass storage devices. It is added automatically if not specified in the path already.
Test Path Access	Checks if the path is accessible.
Filename	Specifies the name of the file. The saving time is automatically appended to the end of the file name
Filetype	Specifies the file type. This can be a text file (.txt) or a CSV file (.csv).
Filename preview	Shows a preview of how the filename is set up
Use file packages	Specifies whether the file packing should be used. With file packaging, all codes read during this time are written to a separate file after the trigger time has elapsed.
Package trigger time	Specifies the time after which the data should be saved to a new file.
Use save after time	Specifies whether the file should always be saved after a specified time. All read data will be saved in the output file after the time has elapsed.
Save after	Specifies the time interval after which the data is to be saved.



Use Box mode	Specifies whether the file should be saved in box mode. All
	data from the beginning of a reading to the end of the reading
	is collected and written to a file after reading.

#### 6.4.8 Database Settings

THERMOTEX	TTX Smartreader Configuration			
Device Status	Settings Overview / Main Settings (TestSetting) / IO Settings / DB Settings			
Settings	Trigger, REID Read, REID Filter, Tag Buffer / Heartheat, Output Settings, EPC Manipulation, File Settings, DB Settings			
Global Settings				
Reading	Server address: 172.27.143.45 Username: SQLUser			
Backup	Instance: SV-0001 Password:			
Tests	DB name:     SmartreaderDB     Options:     Connection Timeout=30			
User Management	<ul> <li>Connectionstring: Server=172.27.143.45\SV-0001; Database=SmartreaderDB; User Id=SQLUser; Password=********; Connection Timeout=30</li> </ul>			
Device Information	Check Connection			
Logout	<ul> <li>✓ Use update script Update script: SmartreaderTest.sql ✓ Upload File Delete File</li> <li>∪ Use table</li> <li>Apply Changes Discard Changes</li> </ul>			
	Back			

In the database settings the database connection and the update method can be set. You can choose between an update script and a tabular assignment.

#### **Database Connection**

Server address	Specifies the server address of the SQL server. The IP address of the server is preferred.		
Instance	Specifies the instance name of the SQL Server.		
DB name	Specifies the name of the database to be used.		
Username	Specifies the user's name to be used to log in to the SQL database.		
Password	Specifies the password for the user.		
Options	Specifies the additional connection parameters, such as a connection timeout.		
Connection string	Shows the complete connection string used for the connection.		
Check Connection	Checks if the connection to the specified SQL database is possible.		



#### Update Script

Use update script	Specifies whether an update script should be used to update the database.		
Update script	Specifies which update script should be used.		
Upload File	<ul> <li>Opens the file explorer to upload a SQL-script.</li> <li>The SQL script must contain the placeholders as parameters.</li> <li>There are currently 2 placeholders.</li> <li>EPC must be present in the script as @EPC parameter.</li> <li>DATETIME must be present in the script as @DATETIME parameter.</li> </ul>		
Delete File	Deletes the selected SQL script from the device.		

#### Table

ablename: Data		
Column name:	Data field:	Add row
Codeld	EPC ~	Remove last row
ReadTime	DATETIME ~	

Use table	Specifies whether table data should be used for updating the database.		
Table name	Specifies the name of the database table where the data should be stored.		
Add row	Adds another row to select another column in the table, which will be filled with the read data.		
Remove last row	Removes the last row.		
Column name	Specifies the name of the column in the table which is to be filled with data.		
Data field	Specifies which data is to be written. It can be selected between currently between EPC and DATETIME. EPC is for the read tag ID DATETIME is the read time. The date time format can be selected in the output settings		





### 6.5 Backup Settings

THERMOTEX	TTX Smartreader Configuration
Device Status	Settings Overview / Main Settings (PrimarySettings) / Backup Setting
Settings	
Global Settings	Backup lifetime: 30 Days
Reading	
Backup	Output interface: USB mass storage
Tests	Backup path: /media/sda1/ Backup
User Management	
Device Information	Apply Changes Discard Changes
Admin Config	
Logout	Back

The lifetime of the internal backup files can be specified in the backup settings. As well as whether and where an external backup should be created.

Backup lifetime	Specifies how long the internal backup data should be stored. The maximum is 999 days.	
Use external backup	Specifies whether an external backup file should be created in addition to the internal backup.	
Output interface	Specifies via which interface the external backup file should be created. You can choose between USB mass storage and Ethernet.	
	If USB mass storage was selected, then the path can be entered under Backup path.	
	If Ethernet was selected, then the network path stored under point $5.2$ is displayed and used.	
Backup path	Specifies the external storage path. If USB-Mass Storage interface is selected <b>/media/sda1/</b> is added as the default USB root path for all USB-Mass storage devices. It is added automatically if not specified in the path already.	
Test Path Access	Tests whether the specified backup path can be accessed	





### 6.6 Monitoring Settings

	TTX Smartreader Configuration	
Device Status	Settings Overview / Main Settings (TestSetting) / M	onitoring Setting
Settings		
Global Settings	Mail Settings: Show Settings	
Reading	Temperature Monitoring	RFID Monitoring
Backup	Use temperature monitoring	✓ Use RFID monitoring
Tests	Monitoring interval: 30 s	Monitoring interval: 1 h
Lleer Management	Use send mail	Use send mail
	Use restart by warning	Use restart by warning
Device Information	Restart timer: 0 s	Restart timer: 0 s
Admin Config	Network Monitoring	Database Monitoring
Logout	Use network monitoring	Use database monitoring
	Monitoring interval: 30 min	Monitoring interval: 30 min
	Use send mail	Use send mail
	<ul> <li>Use restart by warning</li> </ul>	Use restart by warning
	Restart timer: 1 s	Restart timer: 0 s
	Apply Changes Discard Changes	
	Back	

In the Monitoring Settings you can set the monitoring and navigate to the Mail Settings. The monitors can send an email in case of warnings and even restart the device after a countdown.

Use temperature monitoring	Specifies whether the temperature monitoring should be used. The temperature monitoring checks the CPU and RFID temperature.
Use RFID monitoring	Specifies whether the RFID monitoring should be used. The RFID monitoring checks whether a special dummy transponder can be read. (See page 36" Search dummy tag")
Use network monitoring	Specifies whether the network monitoring should be used. The network monitoring checks if the network is still reachable.
Use database monitoring	Specifies whether the database monitoring should be used. Database monitoring checks whether the database specified in the database settings under I/O settings is accessible.
Monitoring interval	Specifies in which interval the selected monitoring should be checked.
Use send mail	Specifies whether an e-mail should be sent in the event of a warning. The mail content and the recipients can be set in the mail settings.



Use restart by warning	Specifies whether the device is to be restarted in the event of a warning.	
Restart timer	Specifies how long to wait until the device restarts.	

#### 6.6.1 Mail Settings

	TTX Smartreader Config	guration		
Device Status	Settings Overview / Main Settings (TestSetting) / Monitoring Setting / Mail Setting			
Settings	Mail Settings:			
Global Settings	Receiving mail addresses:	info@thermo-tex.de, monitoring@	thermo-tex.de	
Reading	Publishing mail address:	info@smartreader.com		
Backup	Mail subject:	Mail subject: Attention there are problems with {DEVNAME}		
Tests	Mail Body:		Placeholder 🗸	
User Management	Attention there are problems	with {DEVNAME}		
Device Information	- {DEVINFO}			
Logout				
	Please check the device and correct the error that occurred			
	This messge was generated automatically.			
	SMTP			
	Mailserver address:	172.27.145.135		
	Mailserver port:	25		
	Username:	admin		
	Password:	•••••		
	Apply Changes Discard	d Changes	Send Test Mail	
	Back			

The mail settings can be used to specify to which persons a warning mail is sent and what information is contained in it. To send a warning mail a mail server is needed.

ecciving mail addresses Specifies the mail addresses to which the warning mail is to be sent. Multiple mail addresses must be separated with a semicolon (;).		Receiving mail addresses	Specifies the mail addresses to which the warning mail is to be sent. Multiple mail addresses must be separated with a semicolon (;).
---	--	--------------------------	---



Publishing mail address	Specifies the publishing mail address
Mail subject	Specifies the mail subject.
Mail body	Specifies the text of the mail. Inserted placeholders are replaced when the mail is sent.
Placeholder	Opens or hides the available placeholders. A list of available placeholders can be seen below.
Mail server address	The address of the mail server that should be used to send the mail.
Mail server port	The mail server port which should be used for SMTP mail sending.
Username	The username of the user who should be used for sending mails.
Password	Password of the specified user.
Send Test Mail	Sends a test mail to the specified mail addresses. The test mail consists of the mail body with the placeholders replaced with default values.



### 6.6.1.1 Mail Placeholder

Placeholder name	Placeholder value	Example
Date	{DATE}	11.01.2022 15:12:37
Status Overview	{OVERVIEW}	CPU Temp: 56°C RFID Temp: 30°C RFID State: Online Network State: Online DB State: Not Monitored
CPU Temp	{CPUTEMP}	56°C
RFID Temp	{RFIDTEMP}	30°C
Temp Status	{TEMPSTAT}	CPU Temp: 56°C RFID Temp: 30°C
RFID Status	{RFIDSTAT}	RFID State: Offline
Network Status	{NETSTAT}	Network State: Online
DB Status	{DBSTAT}	DB State: Not Monitored
Device Infos	{DEVINFO}	Device Name: SIL9400 Firmware Version: 1.6.0 Serialnumber: 20100001 App Version: 1.0.0 Location: Laundry Room / Entry / Box 1 Left
Device Name	{DEVNAME}	Device Name: SIL9400
Firmware	{DEVFIRM}	Firmware Version: 1.6.0
Serialnumber	{DEVSER}	Serialnumber: 20100001
APP Version	{DEVAPP}	App Version: 1.0.0
Reader Location	{DEVLOC}	Location: Laundry Room / Entry / Box 1 Left
Status Message	{MESSAGE}	Warning! The cpu temprature is over the threshold with 75°C





### 6.7 Authentification Settings

	TTX Smartreader Configuration
Device Status	Settings Overview / Main Settings (Test Setting) / Authentification Setting
Settings	
Global Settings	<ul> <li>Use credentials</li> </ul>
Reading	O Use UserID
Backup	Apply Changes Discard Changes
Tests	
User Management	Back
Device Information	
Admin Config	
Logout	

In the Authentication settings you can set whether you have to log in after starting the device. Furthermore, the preselected login type can be selected.

Use authentication at start	Specifies whether a login is required after starting the device in order to use it. If no login is required, the admin user is automatically logged in.
Use credentials	Specifies that the login is done with a user and password by default. Logging in with the UserID is still possible.
Use UserID	Specifies that the login is done with the UserID by default. Logging in with the user's name and password is still possible.



Login with the UserID is only possible via the local login of the THERMOTEX Smartreader application at the RFID device.
Login via the Smartreader Web App is only possible with a user name and a

#### Login via the Smartreader Web App is only possible with a user name and a password.





### 6.8 Settings History

	TTX Smartreader C	configuration	
Device Status	Settings Overview / Settings	ettings History	
Settings	Last settings switch:	16-05-2022 15:49:29	
Global Settings	Last switch by:	admin	
Reading	Switch:	PrimarySettings -> TestSetting	
Backup	Changes		
Tests	16-05-2022 15:49:30	) by admin	{     "IsPrimarySetting": {
User Management	16-05-2022 15:49:30	) by admin	"old": false, "new": frue
Device Information			}
Logout			}
	Back		

The settings history shows information about the switch of active settings and all changes of the current setting.

Last settings switch	Displays the last time the active setting was changed.
Last switch by	Displays by whom the last setting switch was made.
Switch	Displays which settings files have been switched
Changes	Displays the changes to the currently active setting in a list. The entries can be selected and the changes are displayed in the right-hand box.

# Reading



### 7 Reading

Device Status         Reading         EPC         Count         R851           Global Settings         5454011449300000002A74C         1         -34           Reading         End read         5454011449300000002A814         1         -34           Backup         Data output         5454011449300000002A818         1         -56           User Management         Data output         5454011449300000002A818         1         -70           Search dummy tag         5454011449300000002A604         1         -72           Search dummy tag         5454011449300000002A611         1         -53           Device Information         Search dummy tag         5454011449300000002A7CB         1         -53           Logout         54540114493000000002A7CB         1         -53         -54           Search dummy tag         54540114493000000002A7CB         1         -53           Search dummy tag         5454011449300000002A7CB         1         -53           Search dummy tag         5454011449300000002A7CB         1         -53           Search dummy tag         5454011449300000002A7CB         1         -72           Search dummy tag         5454011449300000002A7CB         1         -52           Search dummy tag	THERMOTEX	TTX Smartreader Config	juration		
Settings         Start reading         EPC         Count         R85I           Global Settings         5454011449300000002A74C         1         -34           Reading         End read         5454011449300000002A814         1         -34           Backup         Data output         5454011449300000002A831         1         -54           User Management         Data output         5454011449300000002A838         1         -65           Search dummy tag         5454011449300000002A614         1         -70           Admin Config         Search dummy tag         5454011449300000002A716         1         -53           Logout         54540114493000000002A716         1         -58         -57           Admin Config         54540114493000000002A716         1         -58         -57           Logout         54540114493000000002A705         1         -72         -53         -54540114493000000002A705         1         -72           54540114493000000002A705         1         -72         -54540114493000000002A705         1         -72           54540114493000000002A705         1         -72         54540114493000000002A775         1         -72           54540114493000000002A775         1         -77         54540114	Device Status	Reading			
Start reading         EPC         Count         RSSI           Reading         End read         545401144930000002A74C         1         -34           Backup         End read         545401144930000002A814         1         -34           Backup         Data output         545401144930000002A81B         1         -56           User Management         Search dummy tag         5454011449300000002A838         1         -65           Search dummy tag         5454011449300000002A7E6         1         -72           Admin Config         5454011449300000002A7E6         1         -53           Logout         5454011449300000002A7E6         1         -57           Admin Config         5454011449300000002A7E8         1         -57           Logout         5454011449300000002A7E8         1         -62           5454011449300000002A758         1         -63         5454011449300000002A758         1         -57           5454011449300000002A758         1         -57         5454011449300000002A758         1         -57           5454011449300000002A758         1         -57         5454011449300000002A758         1         -57           5454011449300000002A758         1         -57         5454011449300000002A765	Settings				^
Sector State         5454011449300000002A74C         1         -34           Reading         End read         5454011449300000002A814         1         -34           Backup         Data output         5454011449300000002A815         1         -36           User Management         Search dummy tag         5454011449300000002A838         1         -65           Device Information         Search dummy tag         5454011449300000002A7E6         1         -70           Admin Config         54540114493000000002A7E6         1         -57           Logout         5454011449300000002A7E6         1         -57           5454011449300000002A7E6         1         -57           54540114493000000002A7E8         1         -57           5454011449300000002A7E8         1         -57           5454011449300000002A7E6         1         -72           5454011449300000002A7E8         1         -57           5454011449300000002A7E8         1         -57           5454011449300000002A7E8         1         -72           5454011449300000002A758         1         -71           5454011449300000002A758         1         -57           5454011449300000002A758         1         -52	Clobal Settings	Start reading	EPC	Count	RSSI
Reading         End read         5454011449300000002A814         1         -34           Backup         Data output         5454011449300000002A811         1         -54           Tests         Data output         5454011449300000002A81B         1         -36           User Management         Search dummy tag         5454011449300000002A804         1         -72           Admin Config         Search dummy tag         5454011449300000002A801         1         -58           Logout         5454011449300000002A801         1         -57           5454011449300000002A7CB         1         -57           5454011449300000002A801         1         -57           5454011449300000002A7CB         1         -57           5454011449300000002A7CB         1         -57           5454011449300000002A7CB         1         -72           5454011449300000002A775         1         -72           5454011449300000002A775         1         -72           5454011449300000002A75E         1         -62           5454011449300000002A77E         1         -71           5454011449300000002A75E         1         -72           5454011449300000002A75E         1         -52           545401144930	Giobal Settings		5454011449300000002A74C	1	-34
Backup         5454011449300000002A831         1         -54           Tests         5454011449300000002A81B         1         -36           User Management         5454011449300000002A804         1         -72           Device Information         5454011449300000002A801         1         -53           Admin Config         5454011449300000002A801         1         -58           Logout         5454011449300000002A801         1         -57           5454011449300000002A801         1         -57           5454011449300000002A7CB         1         -57           54540114493000000002A7CB         1         -57           54540114493000000002A7CB         1         -57           54540114493000000002A7CB         1         -72           54540114493000000002A75B         1         -63           54540114493000000002A75B         1         -62           54540114493000000002A75B         1         -63           54540114493000000002A75B         1         -57           54540114493000000002A75B         1         -52           54540114493000000002A75B         1         -52           54540114493000000002A75B         1         -52      >54540114493000000002A75B         1	Reading	End read	5454011449300000002A814	1	-34
Backup         Data output         5454011449300000002A81B         1         -36           Tests         5454011449300000002A604         1         -72           Search dummy tag         5454011449300000002A604         1         -72           Device Information         5454011449300000002A512         1         -53           Admin Config         5454011449300000002A6D1         1         -58           Logout         5454011449300000002A7CB         1         -57           5454011449300000002A7CB         1         -53           5454011449300000002A7CB         1         -57           5454011449300000002A7CB         1         -57           5454011449300000002A7CB         1         -57           5454011449300000002A7C5         1         -72           5454011449300000002A705         1         -72           5454011449300000002A705         1         -72           5454011449300000002A705         1         -71           54540114493000000002A75B         1         -52           5454011449300000002A75B         1         -52           54540114493000000002A75B         1         -52           54540114493000000002A65B         1         -77           54540114493000000002	<u> </u>		5454011449300000002A831	1	-54
Tests         5454011449300000002A604         1         -72           User Management         5454011449300000002A838         1         -65           Device Information         5454011449300000002A712         1         -53           Admin Config         54540114493000000002A801         1         -58           Logout         5454011449300000002A705         1         -57           5454011449300000002A705         1         -57         -5454011449300000002A736         1         -39           Logout         54540114493000000002A736         1         -39         -5454011449300000002A736         1         -39           Logout         54540114493000000002A736         1         -72         -5454011449300000002A736         1         -39           Total Codes: 336         54540114493000000002A755         1         -72         -73         5454011449300000002A755         1         -52           54540114493000000002A755         1         -52         -54540114493000000002A755         1         -52           54540114493000000002A658         1         -57         -54540114493000000002A655         -52           54540114493000000002A655         1         -52         54540114493000000002A655         -75           54540114493000000002A655	Backup		5454011449300000002A81B	1	-36
Tests         5454011449300000002A838         1         -65           User Management         Search dummy tag         5454011449300000002A7E6         1         -70           Device Information         5454011449300000002A512         1         -53           Admin Config         5454011449300000002A6D1         1         -58           Logout         5454011449300000002A7CB         1         -63           5454011449300000002A7CB         1         -63           5454011449300000002A7CB         1         -63           5454011449300000002A7CB         1         -72           5454011449300000002A705         1         -72           5454011449300000002A705         1         -72           5454011449300000002A75B         1         -63           5454011449300000002A75B         1         -63           5454011449300000002A75B         1         -71           5454011449300000002A75B         1         -52           5454011449300000002A75B         1         -52           5454011449300000002A75B         1         -52           5454011449300000002A658         1         -77           5454011449300000002A655         1         -52           54540114493000000002A655         1		Data output	5454011449300000002A604	1	-72
User Management         Search dummy tag         5454011449300000002A7E6         1         -70           Device Information         5454011449300000002A512         1         -53         5454011449300000002A6D1         1         -58         5454011449300000002A7CB         1         -57         5454011449300000002A7CB         1         -57         5454011449300000002A7CB         1         -69         5454011449300000002A7CB         1         -69         5454011449300000002A7CB         1         -72         5454011449300000002A7CB         1         -72         5454011449300000002A7CB         1         -72         5454011449300000002A7CB         1         -62         5454011449300000002A7CB         1         -62         5454011449300000002A7CB         1         -62         5454011449300000002A7CB         1         -62         5454011449300000002A7CB         1         -71         5454011449300000002A7CB         1         -71         5454011449300000002A7CB         1         -72         54540114493000000002A7CB         1         -71         54540114493000000002A7CB         1         -71         54540114493000000002A7CB         1         -52         54540114493000000002A7CB         1         -52         54540114493000000002A658         1         -77         54540114493000000002A658         1         -77         545401144930000000002A655	Tests		5454011449300000002A838	1	-65
Device Information         5454011449300000002A512         1         -53           Admin Config         5454011449300000002A6D1         1         -58           Logout         5454011449300000002A7CB         1         -63           S454011449300000002A7CB         1         -63           5454011449300000002A7CB         1         -63           S454011449300000002A7CB         1         -69           5454011449300000002A736         1         -72           5454011449300000002A705         1         -72           5454011449300000002A705         1         -63           5454011449300000002A705         1         -62           5454011449300000002A705         1         -63           5454011449300000002A705         1         -71           5454011449300000002A75B         1         -63           5454011449300000002A75B         1         -52           5454011449300000002A75E9         1         -52           5454011449300000002A658         1         -77           5454011449300000002A655         1         -75           5454011449300000002A655         1         -75           5454011449300000002A655         1         -75           54540114493000000002A655	Lines Menonement	Search dummy tag	5454011449300000002A7E6	1	-70
Device Information         5454011449300000002A6D1         1         -58           Admin Config         5454011449300000002A7CB         1         -63           Logout         5454011449300000002A487         1         -69           5454011449300000002A736         1         -39           5454011449300000002A736         1         -72           5454011449300000002A735         1         -62           5454011449300000002A755         1         -63           5454011449300000002A755         1         -63           5454011449300000002A755         1         -63           5454011449300000002A755         1         -63           5454011449300000002A755         1         -71           5454011449300000002A755         1         -71           5454011449300000002A755         1         -52           54540114493000000002A658         1         -57           5454011449300000002A658         1         -77           5454011449300000002A658         1         -75           5454011449300000002A655         1         -75           5454011449300000002A655         1         -75           5454011449300000002A655         1         -75           54540114493000000002A655	User Management		5454011449300000002A512	1	-53
Admin Config         5454011449300000002A7CB         1        57           Logout         5454011449300000002A7CB         1        63           5454011449300000002A487         1        69           5454011449300000002A736         1        39           5454011449300000002A705         1        72           5454011449300000002A705         1        62           5454011449300000002A705         1        63           5454011449300000002A75B         1        63           5454011449300000002A75B         1        71           5454011449300000002A75B         1        57           54540114493000000002A75B         1        57           54540114493000000002A75B         1        52           54540114493000000002A73F         1        52           54540114493000000002A658         1        57           54540114493000000002A658         1        77           54540114493000000002A658         1        75           54540114493000000002A655         1        75           54540114493000000002A655         1        75           54540114493000000002A655         1        75           545401144930000000002A655 <t< td=""><td>Device Information</td><th></th><td>5454011449300000002A6D1</td><td>1</td><td>-58</td></t<>	Device Information		5454011449300000002A6D1	1	-58
Admin Config         5454011449300000002A526         1         -63           Logout         5454011449300000002A487         1         -69           5454011449300000002A736         1         -39           5454011449300000002A736         1         -72           5454011449300000002A705         1         -63           5454011449300000002A75B         1         -63           5454011449300000002A75B         1         -63           5454011449300000002A75B         1         -71           5454011449300000002A75B         1         -41           5454011449300000002A75B         1         -57           5454011449300000002A75B         1         -52           5454011449300000002A658         1         -57           5454011449300000002A658         1         -57           5454011449300000002A658         1         -57           5454011449300000002A658         1         -77           5454011449300000002A655         1         -63           5454011449300000002A655         1         -75           5454011449300000002A655         1         -75           5454011449300000002A655         1         -75           54540114493000000002A655         1         -75		-	5454011449300000002A7CB	1	-57
Logout         5454011449300000002A487         1         -69           5454011449300000002A736         1         -39           5454011449300000002A735         1         -72           5454011449300000002A705         1         -62           5454011449300000002A75B         1         -63           5454011449300000002A75B         1         -71           5454011449300000002A75B         1         -71           5454011449300000002A75B         1         -71           5454011449300000002A75B         1         -71           5454011449300000002A75B         1         -63           5454011449300000002A688         1         -57           5454011449300000002A658         1         -77           5454011449300000002A658         1         -77           5454011449300000002A658         1         -75           5454011449300000002A655         1         -75           54540114493000000002A655         1         -75 <t< td=""><td>Admin Config</td><th></th><td>5454011449300000002A526</td><td>1</td><td>-63</td></t<>	Admin Config		5454011449300000002A526	1	-63
Logout         545401144930000002A736         1         -39           5454011449300000002A705         1         -72           5454011449300000002A705         1         -62           5454011449300000002A75B         1         -63           5454011449300000002A75B         1         -71           5454011449300000002A75B         1         -71           5454011449300000002A75B         1         -71           5454011449300000002A75B         1         -71           5454011449300000002A75B         1         -77           5454011449300000002A688         1         -57           5454011449300000002A658         1         -77           5454011449300000002A658         1         -77           5454011449300000002A655         1         -75           5454011449300000002A655         1         -75           5454011449300000002A655         1         -75           5454011449300000002A655         1         -73           5454011449300000002A655         1         -73           5454011449300000002A655         1         -73           5454011449300000002A655         1         -73           54540114493000000002A655         1         -73 <td< td=""><td></td><th>-</th><td>5454011449300000002A487</td><td>1</td><td>-69</td></td<>		-	5454011449300000002A487	1	-69
5454011449300000002A705         1         -72           5454011449300000002A6E9         1         -62           5454011449300000002A75B         1         -63           5454011449300000002A75B         1         -71           5454011449300000002A75F         1         -71           5454011449300000002A78F         1         -41           5454011449300000002A688         1         -57           5454011449300000002A658         1         -77           5454011449300000002A658         1         -77           5454011449300000002A658         1         -77           5454011449300000002A655         1         -75           5454011449300000002A655         1         -75           5454011449300000002A655         1         -75           54540114493000000002A655         1         -75           5454011449300000002A655         1         -75           5454011449300000002A655         1         -75           5454011449300000002A655         1         -73           5454011449300000002A655         1         -73           54540114493000000002A772         1         -73           54540114493000000002A760         1         -76	Logout		5454011449300000002A736	1	-39
5454011449300000002A6E9       1       -62         5454011449300000002A75B       1       -63         5454011449300000002A7DE       1       -71         5454011449300000002A7BF       1       -41         5454011449300000002A7BF       1       -57         5454011449300000002A688       1       -57         5454011449300000002A6B8       1       -52         5454011449300000002A6E3       1       -63         5454011449300000002A6E4       1       -63         5454011449300000002A6E5       1       -75         5454011449300000002A6E5       1       -75         5454011449300000002A6E5       1       -73         5454011449300000002A6E5       1       -76         5454011449300000002A772       1       -73         54540114493000000002A760       1       -76		-	5454011449300000002A705	1	-72
545401144930000002A75B       1       -63         5454011449300000002A7DE       1       -71         5454011449300000002A7DE       1       -41         5454011449300000002A78F       1       -57         5454011449300000002A688       1       -57         5454011449300000002A5E9       1       -52         5454011449300000002A658       1       -77         5454011449300000002A658       1       -69         5454011449300000002A6E4       1       -63         5454011449300000002A6E5       1       -75         5454011449300000002A6E5       1       -75         5454011449300000002A6E5       1       -75         5454011449300000002A772       1       -73         5454011449300000002A7760       1       -76			5454011449300000002A6E9	1	-62
5454011449300000002A7DE       1       -71         5454011449300000002A7BF       1       -41         5454011449300000002A688       1       -57         5454011449300000002A5E9       1       -52         5454011449300000002A658       1       -77         5454011449300000002A658       1       -69         5454011449300000002A6E4       1       -63         5454011449300000002A6E5       1       -75         5454011449300000002A6E5       1       -75         5454011449300000002A6E5       1       -75         5454011449300000002A6E5       1       -73         5454011449300000002A772       1       -73         5454011449300000002A760       1       -76			5454011449300000002A75B	1	-63
545401144930000002A78F         1         -41           5454011449300000002A78F         1         -57           5454011449300000002A589         1         -52           5454011449300000002A658         1         -77           5454011449300000002A658         1         -69           5454011449300000002A61F         1         -63           5454011449300000002A61F         1         -75           5454011449300000002A61F         1         -75           5454011449300000002A61F         1         -73           5454011449300000002A772         1         -73           5454011449300000002A760         1         -76			5454011449300000002A7DE	1	-71
5454011449300000002A688         1         -57           5454011449300000002A5E9         1         -52           5454011449300000002A658         1         -77           5454011449300000002A658         1         -77           5454011449300000002A658         1         -69           5454011449300000002A6E4         1         -63           5454011449300000002A6E5         1         -75           5454011449300000002A6E5         1         -75           5454011449300000002A6E5         1         -73           5454011449300000002A772         1         -73           5454011449300000002A760         1         -76			5454011449300000002A78F	1	-41
5454011449300000002A5E9         1         -52           5454011449300000002A5E9         1         -77           5454011449300000002A6E4         1         -69           5454011449300000002A6E4         1         -63           5454011449300000002A6E5         1         -75           5454011449300000002A6E5         1         -75           5454011449300000002A6E5         1         -73           5454011449300000002A772         1         -73           5454011449300000002A760         1         -76			5454011449300000002A688	1	-57
5454011449300000002A658         1         -77           5454011449300000002A658         1         -69           5454011449300000002A6E4         1         -69           5454011449300000002A61F         1         -63           5454011449300000002A6E5         1         -75           5454011449300000002A6E5         1         -75           5454011449300000002A772         1         -73           5454011449300000002A760         1         -76			5454011449300000002A5E9	1	-52
545401144930000002A6E4         1         -69           545401144930000002A6F         1         -63           545401144930000002A6E5         1         -75           5454011449300000002A6E5         1         -73           5454011449300000002A772         1         -73           5454011449300000002A760         1         -76			5454011449300000002A658	1	-77
Total Codes: 336         5454011449300000002A61F         1         -63           5454011449300000002A61F         1         -75           5454011449300000002A6E5         1         -73           5454011449300000002A772         1         -73           5454011449300000002A760         1         -76			5454011449300000002A6E4	1	-69
Total Codes: 336         5454011449300000002A6E5         1         -75           5454011449300000002A772         1         -73           5454011449300000002A772         1         -73           5454011449300000002A760         1         -76			5454011449300000002A61F	1	-63
Total Codes: 336         5454011449300000002A772         1         -73           5454011449300000002A760         1         -76			5454011449300000002A6F5	1	-75
Total Codes: 336 5454011449300000002A760 1 -76			5454011449300000002A772	1	-73
0101011110000000021100		Total Codes: 336	54540114493000000002A760	1	-76
5454011449300000002A58C 1 _59			54540114493000000002A58C	1	-59
Reset UI 545401144930000000028485 1 -62		Reset UI	5454011449300000002A4B5	1	-62 ~

The transponder reading can be controlled via the reading window. The reading window shows the current reading status. This is updated at a short interval.

Start reading	Starts the reading process. An active read operation can be recognized by the button with a green background.
End read	Ends the reading process.
Data output	Sends all collected tags via the set interface. The tags are reset after sending. This is only possible if the data output trigger has been activated in the trigger settings.
Search dummy tag	Starts a manual search for the <b>dummy transponder (with EPC: 000000000000000000000000000000000000</b>
Total Codes	Displays the number of all tags read.
Reset UI	Resets the UI and the Read Tags list.
EPC	Displays the EPC number of the read tag.
Count	Shows how many times the code was read. But currently this is not evaluated and therefore a 1 is always displayed
RSSI	Shows the RSSI value with which the tag was read.



## Backup

### 8 Backup

	TTX Smartreader Co	onfiguration					
Device Status	Backup						
Settings							
Global Settings	Show 10 v entries			Search:			Download Backup
Reading	File ↑↓	Creation date îl	Age	î↓ Dat	e of deleti	ion î↓	Download All
	Backup_20220725_1.txt	25.07.2022	28 Days	24.0	08.2022		Delete Backup
Васкир	Backup_20220727_1.txt	27.07.2022	26 Days	26.0	08.2022		
Tests	Backup_20220728_1.txt	28.07.2022	25 Days	27.0	08.2022		
User Management	Backup_20220729_1.txt	29.07.2022	24 Days	28.0	08.2022		
Device Information	Backup_20220810_1.txt	10.08.2022	12 Days	09.0	09.2022		
	Backup_20220811_1.txt	11.08.2022	11 Days	10.0	09.2022		
Admin Config	Backup_20220812_1.txt	12.08.2022	10 Days	11.0	9.2022		
Logout	Backup_20220815_1.txt	15.08.2022	7 Days	14.0	09.2022		
	Backup_20220815_2.txt	15.08.2022	7 Days	14.0	09.2022		
	Backup_20220815_3.txt	15.08.2022	7 Days	14.0	09.2022		
	Showing 1 to 10 of 26 ent	ries		Previous	1 2	3 Next	

All read transponders are stored with their read time in a backup. A separate file is created for each day. However, if these become too large, an additional file is created.

File	The filename of the backup file. The structure of the name consists of "Backup" the day of creation and a sequential number.
Creation date	The day of the file creation.
Age	Displays the age of the file.
Date of deletion	The day when the backup file is deleted. This is dependent on the Backup lifetime set in the Backup Settings of the current settings profile.
Download Backup	Downloads the selected backup file.
Download All	Downloads all backup files. Caution, this can lead to a system crash with reboot if there are too many or too large files.
Delete Backup	Deletes the selected backup file, after confirming a security question.





### 9 Tests

The tests can be used to check the digital input and output ports and to test the antennas. The tests cannot be used during reading

#### 9.1 I/O Tests

The I/O tests are divided into 2 sections. The output and input test. In the output test, the digital output ports can be set. In the input test, the input ports can be monitored.

#### 9.1.1 Output Test

THERMOTEX	TTX Smartreader Configuration
Device Status	Tests
Settings	
Global Settings	Antenna Test
Reading	Output
Backup	Output 1 Reverse Value: 1     Start Output Test
Tests	Output 2 Reverse Value: 1 Stop Output Test
User Management	Output 3 Reverse Value: 0
Device Information	Output 4 Reverse Value: 0
Logout	Inputs
	Input 1 Input 2 Refresh Rate: 2500 ms Start Input Test Stop Input Test Reset data



## Tests

Output 1-4	Specifies whether the digital output port is to be switched active.
Reverse	Specifies whether the value of the digital output port should be inverted. If it is active, a 0 is output. If it is not active, a 1 is output.
Value	Displays the value that is applied to the digital output.
Start Output Test	Starts the output test. This is not possible while reading.
Stop Output Test	Stops the output test. The digital output ports are reset to their default value.

### 9.1.2 Input Test

THERMOTEX	TTX Smartreader Configuration
Device Status	Tests
Settings	
Global Settings	I/O lest Antenna lest
Reading	Output
Backup	Output 1 Reverse Value: 0 Start Output Test
Tests	Output 2 Reverse Value: 0 Stop Output Test
User Management	Output 3 Reverse Value: 0
Device Information	Output 4 Reverse Value: 0
Logout	Inputs
	Input 1 Input Value Time
	✓ Input 2           Input 1         0         09:02:04.884           Input 1         0         00:02:04.884
	Refresh Rate: Input 2 1 09:02:04.884
	2500 ms Input 1 1 09:02:01.685
	Input 1 0 09:01:59.378
	Start Input Test Input 2 0 09:01:59.378
	Stop Input Test
	Reset data

### Tests



The input test monitors the specified digital inputs. Every change is shown and displayed in the list.

Input 1-2	Specifies whether the digital input port should be monitored.
Refresh Rate	Specifies the refresh rate at which the displayed data is updated. This cannot be less than 1000ms.
Start Input Test	Starts the input test. This is not possible while reading.
Stop Input Test	Stops the input test.
Reset Data	Resets the UI and the monitored data
Input	Indicates which input has changed its status.
Value	Indicates which value the input has.
Time	Displays the time of the status change





#### 9.2 Antenna Tests

	TTX Smartreader Configuration				
Device Status	Antenna test scan started				
Settings	Antenna test scan started				
Global Settings	Tests				
Reading	I/O Test Antenna Test				
Backup	Antenna				
Tests		Start single scan	Stop cycle scan		
User Management	Antenna 1 Power: 5 V	EPC	Count RSSI	^ #Tags:	220
	Antenna 2 Power: 1 V	5454011449300000002A5A8	6 -45	#Tags/s:	141
Device Information		5454011449300000002A65A	5 -45	Cycle Duration:	1.558s
Logout	Antenna 3 Power: 7 V	5454011449300000002A6D4	3 -52	#Cvcles:	3
209001		5454011449300000002A7A9	3 -64	Deel	75
	Antenna 4 Power. I V	5454011449300000002A744	3 -65	KSSI Min.	-75
		54540114493000000002A67F	3 -63	RSSI max:	-36
	RSSI Filter	5454011449300000002A83C	3 -43		
		5454011449300000002A6D9	3 -03		
	Min: -75	5454011449300000002A871	3 58		
	Max: 35	5454011449300000002A603	3 -70		
		54540114493000000002A6FC	3 -55		
		5454011449300000002A61F	3 -67		
		5454011449300000002A62C	3 -73		
		5454011449300000002A7D0	6 -69		
		5454011449300000002A6B0	3 -61		
		5454011449300000002A510	6 -62		
		5454011449300000002A668	3 -62		
		5454011449300000002A727	3 -53	~	
1		(======================================	~ 7/		

With the antenna test, the individual antennas can be tested. This can be done as a single test scan or in multiple cycles.

Antenna 1-4 or 1-8	Specifies which antenna to use for the test.
Power	Specifies with which power the antenna should read. A value between 1 and 15 can be selected.
RSSI Filter Min	Indicates the minimum value a read transponder must have in order to be processed.
RSSI Filter Max	Specifies the maximum value a read transponder may have in order to be processed.
Start single scan	Starts a reading cycle. In this read cycle, each antenna creates an inventory.
Start cycle scan	Starts the cyclic reading mode, this reads with each selected antenna alternately until the reading is stopped
Stop cycle scan	Ends the cyclic reading mode.
EPC	Shows the EPC number of the read transponder.
Count	Shows the number of times the transponder was read.
RSSI	Shows the last RSSI value with which the transponder was read.
Statistic	The statistics determines how many transponders have been read in total, it also determines the transponders per second. The time of the last cycle and the number of all cycles is displayed as well as the minimum and maximum RSSI value.



### 10 User Management

### 10.1 Users

	TTX Smartreader Configuration	
Device Status	User Management	
Settings		
Global Settings	Users	
Reading	Username: user	Access Rights
Packup	Userld: 12345678	SAdmin
Баскир		CanEditUserManagement
Tests	Edit User Change Password	CanEditSettings
User Management		CanEditGlobalSettings
		CanReadInWeb
Device Information		CanDeleteBackup
Logout		

#### In the user administration, users without special rights can manage their own users.

Username	Displays the username of the logged in user.
UserId	Displays the UserID of the logged in user.
Access Rights	Displays the access rights of the logged-in user
Edit User	Opens the user edit function where the user name and the UserID can be adjusted.
Change Password	Opens the edit password function where the user can change his password.



#### 10.1.1 Edit User

	TTX Smartreader C	onfiguration	
Device Status	Edit User: user		
Settings			
Global Settings	Users	J	
Reading	Username:	user	Access Rights
Backup	Userld:	12345678	IsAdmin
Васкир			CanEditUserManagement
Tests			CanEditSettings
User Management			CanEditGlobalSettings
			CanReadInWeb
Device Information			CanDeleteBackup
Admin Config			
Logout	Save Cancel		

#### Each user can edit their username and UserID. However, these must be unique on the system.

Username	Specifies the username of the logged in user.
Userld	Specifies the UserID of the logged in user.
Access Rights	Displays the access rights of the logged-in user.

	<ul> <li>Login with the UserID is only possible via the local login of the THERMOTEX Smartreader application at the RFID device.</li> <li>Login via the Smartreader Web App is only possible with a user name and a password.</li> </ul>
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#### 10.1.2 Change Password

	TTX Smartreader C	onfiguration
Device Status	Change Password	
Settings		
Global Settings	Users	
Reading	Username:	admin
Backup	Current Password:	••••••
Tests	New Password:	••••••
User Management	Confirm Password:	•••••
Device Information		
Logout	Save Cancel	

#### Every user can change his password. To change the password, the current password is required.

Username	Displays the username of the logged in user.
Current Password	Specifies the user's current password.
New Password	Specifies the user's new password.
Confirm Password	Specifies the user's new password again for security. Both passwords must match. This is indicated by a green background in the Confirm Password field.



#### 10.2 Admin / Edit User Management Functions

	TTX Smartreader Configuration	
Device Status	User Management	
Settings		
Global Settings	Users	
Reading	Username: v	Access Rights
Backup	Userid: 12345678	IsAdmin
		CanEditUserManagement
Tests	Add User Edit User Reset Password Delete User	CanEditSettings
User Management		CanEditGlobalSettings
		CanReadInWeb
Device Information	_	CanDeleteBackup
Admin Config		
Logout		

As a user with Edit User Management rights, you can select other users, add new users, edit them, reset their password or delete them.

Username	Selection of a user. The own user is selected by default.
Userld	Displays the UserID of the selected user.
Access Rights	Displays the access rights of the selected user
Add User	Opens the function to create and add new users.
Edit User	Opens the user edit function of the selected user where the username and the UserID can be adjusted.
Reset Password	Resets the password of the selected user to the default password after confirming a security query. The password of the own user cannot be reset, but can be changed via the change password function.
Delete User	Deletes the selected user after confirming a security query. The own user cannot be deleted.



### 10.2.1 Add User

THERMOTEX	TTX Smartreader Configuration	
Device Status	Add User	
Settings		
Global Settings	Settings	
Reading	Username: user	Access Rights
Backup	Userld: 12345678	
Баскир		CanEditUserManagement
Tests		CanEditSettings
User Management		CanEditGlobalSettings
		CanReadInWeb
Device Information		CanDeleteBackup
Logout		
	Save Cancel	

Adding new users is the same interface as editing users

Username	Specifies the username of the logged in user.
UserId	Specifies the UserID of the logged in user.
Access Rights	Specifies the access rights of the logged-in user. If the user is given admin rights, all other rights are automatically assigned.



### 10.3 Settings

THERMOTEX	TTX Smartreader Configuration
Device Status	User Management Settings
Settings	
Global Settings	Users Settings
Reading	Password Guidelines
Backup	Min Password Length: 8
Tests	Min 1 Numeric Character
User Management	Min 1 Special Character
Device Information	Default Password
Logout	Default Password:
	Confirm Password:
	Save Cancel

#### In the User Management Settings, the password policy and the default password can be set.

Min Password Length	Specifies the minimum length of the user passwords. If 0, there is no minimum length. The maximum value is 100.
Upper and Lower case	Specifies whether the user password must have at least 1 uppercase letter and at least 1 lowercase letter.
Min 1 Numeric Character	Specifies whether the user password must contain at least 1 number.
Min 1 Special Character	Specifies whether the user password must contain at least 1 special character.
Default Password	Specifies the default password. The default password must comply with the set password guidelines. All new users are assigned this password. Furthermore, the users can be reset to this password.
Confirm Password	Specifies the default password again for security. Both passwords must match. This is indicated by a green background in the Confirm Password field.
Save	Saves the settings after a validation.
Cancel	Resets all changed settings.

# Login



### 11 Login

	TTX Smartreader Configuration
Login	Login
	Please enter your credentials to log in.
	Username:
	Password:
	Login

To use the web application, you must first log in. For this purpose, the username and password are required.

Username	Specifies the username of the user to login.
Password	Displays by whom the last setting switch was made.
Login	Checks the login data. If the check is successful, the user is logged in to the web application and redirected to the Device Status page. This can also be done by pressing the Enter key when the cursor is in the Password field.



#### 11.1 Login with new user

THERMOTEX	TTX Smartreader	Configuration
Login	Change Default Pass	word
	Please enter a new Pa	ssword.
	Username:	user
	New Password:	•••••
	Confirm Password:	•••••
	Save Cancel	

When a new user logs in with their user's name and default password, the Change Default Password page is loaded. Here the user can enter a new password. This password must comply with the set password guidelines.

Username	Displays the username for which a new password is to be assigned.
New Password	Specifies the new password of the user.
Confirm Password	Specifies the password again for security. Both passwords must match. This is indicated by a green background in the Confirm Password field.
Save	Check that both passwords are identical and that they comply with the password policy. If so, the password is saved and the user is logged in to the web application.
Cancel	Cancels the change of the default password and displays the login interface again.