

Adjustment software for Saveris components testo 150

Instruction manual



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1 About this document

- > Please read this documentation through carefully and familiarize yourself with the product before using it. Pay particular attention to the safety instructions and warning notices in order to prevent injuries and damage to the product.
- > Keep this document to hand so that you can refer to it when necessary.
- > Hand this documentation on to any subsequent users of the product.

Knowledge of Windows[®] operating systems is required to work with the software.

The description in this instruction manual relates to Windows® 10.

Symbols and writing standards

Display	Explanation
i	Note: basic or further information
1 2	Action: several steps, the sequence must be followed
-	
>	Action: one step or optional step.
-	Result of an action
✓	Requirement
Menu	Elements of the program interface.
[OK]	Buttons of the program interface.
	Functions/paths within a menu.

2 Specifications

2.1 Use

The Saveris adjustment software can be used to adjust the radio/Ethernet loggers and digital probes connected to the Saveris Base.

The temperature and relative humidity of each individual logger/probe can be calibrated and then adjusted using the Saveris adjustment software and a reference measuring instrument.

Following successful adjustment, the current adjustment data is stored in the logger/probe.

2.2 Scope of delivery

The following components are included in the delivery:

- CD with testo Saveris adjustment software for V2 and V3 including instruction manual.
- USB cable for connecting the Ethernet and radio loggers to the computer.

2.3 System requirements

Computer

For smooth work with the software, the following requirements should be met:

- Pentium processor of at least 1.2GHz or equivalent
- 256MB RAM
- 50MB unused hard drive capacity
- CD-ROM drive
- USB 2.0 interface

Operating system

The adjustment software for Saveris components testo 150 will work on the following 32-bit and 64-bit operating systems:

Windows 10[®]

Administrator rights are required for installation.

- 1 Insert the program CD into the CD-ROM drive of the computer.
- 2 Open the CD drive in Windows Explorer | run testo Adjustment Software t150 Setup.exe as administrator (right mouse button)
- 3 Follow the installation wizard's instructions.

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- 4 To complete the software installation: Click on [Finish].
- The software was installed successfully on the computer.

4 Requirements for adjustment of the data loggers/probes

- ✓ A calibration that has already been carried out is a prerequisite for successful adjustment. If no calibration certificate is available, go to the section **Product description** – menu item [Measurement].
- ✓ Batteries are inserted in the testo 150 data logger.
 - The required probes are connected to the testo 150 data logger.
- 1 Connect the data logger to the computer via the USB port.

The user interface of the adjustment software is exclusively in English.

5 Launching the software

1 Click on [Windows] | Testo | Saveris Adjustment Software t150.



6 Product description

6.1 Start screen

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Depending on the selected menu item, the view of the desktop changes.

1	🥥 Adjustment-Software t150: — 🗆 🗙							
File	Configuration	Device Adjustme	ent Measurement	ExternalProbe	Help			
File		Under th	is menu item	n, you can	exit the pro	gram.		
Con	 Under this menu item, you can search for connected devices (Scan) select the printer for the print function (Printer) set the temperature unit (Temperature Unit). 							
Devi	Device Under this menu item, you can carry out work on the connected logger.							

Adjustment	Under this menu item, you cancarry out adjustment for the connected loggerprint out its production protocolchange the access password.
Measurement	Under this menu item, you can determine individual values or series of measurements using the connected logger and the probes plugged into it.
ExternalProbe Under this menu item, you can adjust digital probes connected to the logger.	
Help	This menu item contains information about the adjustment software.

7 Using the product

O also at D as dia a litela settifica attigue ta susta	
Select Device Identification to gain	Device Adjustment Measur
access to the data logger/probe.	Identification
	Device Information
	Error Log
	Exit Device
Device Device Information provides further information about the data logger/probe.	Device information Logger Wh Int_NTC Board DeviceSerial Nr: 54675103 MeasureBoard Serial Nr: 183122487 Firmware version: 10.6 Bootlader version: 0.0.8 Chamel num: 1 Production Date(2020.05.04
	CommBoard Info: DeviceID: Sub 1G-EU CommBoardSerial Nr : 83064175
	DeviceSerial Nr: 83064176
	Production Date: 2019-10-31
	Mac Address:
	Close

In order to carry out the calibration/adjustment in $^{\circ}F$, this unit can be changed in the software from $^{\circ}C$ to $^{\circ}F$ for the duration of the activity. The change then applies to all channels and components.

7.1 Preparing an adjustment

We recommend disabling or deleting the latest adjustment data stored in the component or setting it to zero and only then starting the measurement for calibration. Implement these settings before calibration in the Adjustment/Adjustment menu item. The values determined with the subsequent calibration then relate to the production adjustment.



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The production protocol supplied ex works can be called up and printed out under the [Adjustment] | Print test protocol tab.



To implement an adjustment, you need a calibration certificate or a calibration that has already been carried out. If this is not available, please go to the section **Carrying out a calibration**.

7.1.1 Assigning a password

Assign a probe-specific password to protect the adjustment data from any unauthorized access.



Please note the following information on assigning a password:

- The password is used to protect the adjustment data in the logger from any unauthorized changes. The password is stored in the logger.
- After assigning a password, the adjustment software can only be opened if the password of the connected logger is entered.
- The password can contain a maximum 16 Latin characters.
- 1 Click on the [Adjustment] tab.
- 2 Select [Change Password].
- If no password has been assigned yet: Initially log in with "testo" in order to set up a new password
- 3 Click on [OK].
- New password is accepted.

7.2 Carrying out calibration

Determine the correction data for the adjustment from the data generated during the calibration.



The maximum storage period for calibration is 24 hours.

You can only start an online measurement after entering a file name for the measurement if the file name including the suffix is specified: **<filename>.csv**.

With online logging and offline logging, the software offers two ways to check the logger readings. Both options can be carried out without WLAN network connection. Configuration parameters such as WLAN access, encryption, measuring cycle, alarm settings, etc. are retained.

7.2.1 Calling up the calibration function

1 Call up the calibration function: Measurement | Logging | Start measurement logging

Adjustment	Measurement	External	Probe Help
cessfully co	Measured va	lue	
0.8	Logging	6	Start measurement logging
odular Logg	742 ar Logger		Get measurement logging
0	572 3320		

The Select Logging Mode window opens.

7.2.1.1 Online Logging

The logger is permanently connected to the PC and the service software via the service interface. The readings from all channels are continuously stored in a csv file.

Advantage: The logging duration is not limited to the logger's memory capacity.

1 Select Online Logging and click on [Next].



2	Name the file for storing the readings (Name) and specify the storage location (Location). Click on [Next].	Logging - Online Mode Assign storage file Select the flerane and location of the cor file for attrage of the measurement values Name Locations C_dimend/enadem/beddap Invest.
		< Back Next > Cancel
3	Specify the measurement cycle (Measurement cycle) and the required measurement duration (Measurement duration time). Click on [Next].	Logging parameter Logging parameter Set 8 measurement dig earl free measurement digators Nete If you want to site logging annually lever the digators to 0.0 Neasurement cycle: Neasurement digators the: O(0.5:00) Carcel Carcel
4	Start logging: Click on [Start logging].	Logging - Online Mode Logging Duator: Dhau(s) 5 minute(s) - Cyster 5 sec for the home for the ho
	You can also stop the process before the defined measuring time has elapsed by clicking on [Stop logging].	Clarcel Carcel Printin
5	Finish online logging: Click on [Finish].	

7.2.1.2 Offline Logging

The logger works independently without a cable connection. The logging duration is limited by the memory capacity of the internal storage. The memory works as a circular buffer.

- 1 Select Offline Logging and click on [Next]. Logging - Offline Mode 2 Enter the measurement cvcle Logging parameter (Measurement cycle). Click on Set the measurement cycle [Next]. Measurement cycles :00:05 Next >>> Logging - Offline Mode 3 Start logging: Click on [Enable Logging logging mode]. In offline logging mode the device will be restarted before logging actually starts Logging is currently disabled Set offline logging mode to trues You can stop the process before Set offine logging mode to false: sable logging mode 1 the defined measuring time has elapsed by clicking on [Cancel]. 4 Confirm the notification "Offline logging mode is started now" by clicking on [OK].
- 5 Follow the steps in the information window. Confirm by clicking on [OK].
 - Exit active offline logging mode. Click on [Disable logging mode].

7.2.1.3 Exiting offline logging / reading out logging data

- 1 Connect the logger to the PC via a USB cable.
- 2 Select the Device | Identification tab.
- 3 Data readout: Measurement | Logging | Get measurement logging
- Logger data is displayed.

4 Archive data: Click on [Export] to store the data as a .csv file at a defined storage location.

	Timestamp	wreel (TemparatureCorol in *	Channel 1 (Temper	dursCor
1	06.12.2016-16:15:35	22.869	22.6/1	
2	06.12.2016-16:15:00	22.875	22.827	
3	0512,2016-15:15:04	22.834	22.627	
4	05.12.2016-16:15:45	22.834	22.633	
5	05.12.2016-16:15:54	22.845	22.645	
6	05.12.2016-15:15:55	22.845	22.545	
7	05.12.2016-15:16:00	22.834	22.045	
0	05.12.2016-15:15:05	32.83N	22.845	
9	05.12.2016-10:10:00	22.828	22.539	
10	00.12.2010-10:00:05	22.822	22.635	
11	05.12.2016-16:16:20	22.822	22.627	
12	05.12.2016-16:16:15	22.804	22.527	
12	05.12.2016-16:16:30	22.792	22.627	
14	05.12.2016-16:16:15	22.37%	22.637	
15	05.12.2016-16:16:40	22.757	22.627	
+		.81		

5 Confirm by clicking on [OK].

7.3 Carrying out an adjustment

- 1 Click on the Adjustment tab and select the Adjustment menu.
- 2 Enter password for the connected data logger/probe. If no individual password for the data logger has been assigned yet: Enter **testo**.

ger sux Adjustment Change Password Code: Code: DS72 3350 Input for verification	Device	Adjustment	Measurem
1. Change Password 5 [.] Print test protocol M. 572 3350 Input for verification	ger suc	Adjustmen	t
5 Print test protocol M 0572 3350	1	Change Pa	ssword
Input for verification	5	Print test p	rotocol
Input for verification	Code:	0	572 2250
Password:			
	Input for Pas	verification sword:	••

- 3 Confirm the input with [OK].
 - The Adjustment data window is displayed.

Overview of functions in the Adjustment data section

Adjust	ment data	100					
FCu	-Channel-1	tment	Channel-2	NTC-Channel-3	NTC-Channel-4	•	
	Active						
real value me			neas value	_			
1 20 25							
2	2						
3	}						
4	+						
5	i						
6	5				<u>-</u>		
	Certific	ate Nr:	12456	R	eference device:	Refdevice	
Dat	te of last calib	ration:	14.08.2020	•		Print	Export
	Date of	expire:	20.08.2020	*	N	Save	Close
					3		
usto	mer Ad	ljust	ment	Custome can be de logger.	nt data en er Adjustn eleted via a	tered is sto nent storag a factory re	pred in the ge area and eset on the
				The value device is	e determin entered in	ed with the the real v	e reference alue section
eal v	eal value		Dep mus adju poss	ending on t be done stment val sible.	the logger, several tim lues per ch	/probe, this nes. Up to 6 nannel are	
eas	value			The value the meas	e from the value see	calibration ction.	is entered i
ertifi	icate No	D.:		If the adju certificate calibration field.	ustment is e, the refer n certificat	based on a ence numb e is entere	a calibration per of the d in the inpu
efere	ence de	vice		The name entered in	The name of the reference device used i entered in the input field.		vice used is
ate c	of last c	alib	ration	Stored da	ate of the la	ast calibrat	ion
ate c	of expire	e		The date is entered Saveris s calibration	of the nex here. Thi oftware as n alert.	t schedule s date is u the basis	d calibration sed by the for the

Print	You can print out an overview of the entered data by clicking on print . Depending on the configured printer, you can do this on paper or as a pdf for further documentation.
[Export]	Creates a file, which can be imported into the Saveris software via the client and is then available there.
[Save]	Saves the adjustment data in the logger/probe.
[Close]	Closes the Adjustment data window.

4 To terminate the connection to the instrument: click on exit device.

5 Exit the testo Saveris adjustment software: Click on Exit.

If the window is simply closed, it will take significantly longer to open next time.

8 Tips and assistance

If you have any questions, please contact your dealer or Testo Customer Service. The contact details can be found on the back of this document or on the Internet at **www.testo.com/servicecontact.**.



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