

2025

Operating instructions measuring amplifier A150U



12.12.2025

Trachsler Electronics GmbH
Mess- und Wägetechnik, Cloud-Anbindungen
Haslistrasse 12a, CH-8554 Wigoltingen
Tel. +41/44 970 31 65
Fax +41/44 970 31 66



Trachsler Electronics GmbH
Mess- und Wägetechnik, Cloud-Anbindungen
Haslistrasse 12a, CH-8554 Wigoltingen
Tel. +41/44 970 31 65
Fax +41/44 970 31 66



Table of contents

| | |
|---|----|
| General information | 2 |
| Operation and introduction | 3 |
| Important steps before installing on a computer | 4 |
| Install device driver | 5 |
| 3.5" TFT display with touch function | 6 |
| Connect to the device via the setup programme | 7 |
| Select device identifier | 8 |
| Measurement amplifier settings | 9 |
| Perform device calibration | 10 |
| Channel activation, user designation, user unit | 11 |
| Perform user scaling | 12 |
| Multi-point scaling | 12 |
| Polynomial scaling | 14 |
| Activate and set limit values | 15 |
| Load / save settings | 17 |
| Page view Printer selection Print settings | 18 |
| Save tare and zero values in a power failure-proof manner | 22 |
| Select active parameter set | 23 |
| Measured values [mV/V] Zero-adjustable | 24 |
| Dimming the TFT backlight and setting the screensaver | 25 |
| Perform firmware update | 26 |
| Measured value display | 28 |
| Switching the device on/off | 29 |
| Nameplate | 30 |
| Sensor connection | 31 |
| Check whether an update is available | 32 |
| Select user language | 33 |
| Technical specifications | 34 |

General information

The DMS A150U measuring amplifier with USB interface can be used to wirelessly measure and monitor various sensors.

The measuring amplifier can be scaled using an 11-point scale or a polynomial function with 4 constants.

Up to 8 output channels and 8 limit value pairs can be freely selected and activated:

| | |
|----------------------------|--|
| Gross [user-scaled] | scaled gross value with specified unit |
| Net [user-scaled] | scaled net value with specified unit |
| Tare [user-scaled] | scaled tare value with specified unit |
| Measured value [mV/V] | absolute measured value in [mV/V] |
| + Peak value [user-scaled] | Positive peak value with specified unit |
| AD converter raw count | Negative peak value with specified unit |
| AD converter raw count | 24-bit converter raw count |
| Device temperature in °C | Device temperature Only measurable when sensor is connected |

Operation and introduction

To switch on the device, connect the plug-in power supply to the device socket and press the 'I/O' button on the front of the device until the device name appears on the TFT display.



To switch off the device, press the 'I/O' button for approx. 2 seconds. The message 'Hold the Key to Power down' will appear on the LCD display.

If the 'I/O' button is now deactivated, the device will continue to operate. If the screen saver is active, the brightness of the backlight will be reset to the target value.

If the 'I/O' button is now deactivated, the device will continue to operate. If the screen saver is active, the brightness of the backlight will be reset to the target value.



Instructions for handling the device that must be followed:

- The device has protection class IP54; suitable moisture protection must be provided for outdoor measurements.
- Clean the device, and in particular the TFT display, only with a damp cloth and, if necessary, a little soap. Never use methylated spirits, thinners, acetone or similar cleaning agents.
- Please handle the TFT display with care as it is sensitive to sharp objects and impacts.
- Before opening the device, the mains plug must be disconnected to ensure that the device is de-energised.

Important steps before installing on a computer

Before connecting the measuring amplifier to your computer for the first time, the setup programme must first be installed on the computer with administrator rights.

This will provide the operating system with the drivers/information required for operation.

If the measurement amplifier is connected to the computer before the drivers are installed, problems may arise later and the measurement amplifier will not be found by the setup programme. Please read the next chapter for more information.

Install device driver

The files required to operate the device are installed during installation by the corresponding setup programme. You can find them under:

C:\Windows\inf\Trachsler Electronics GmbH\

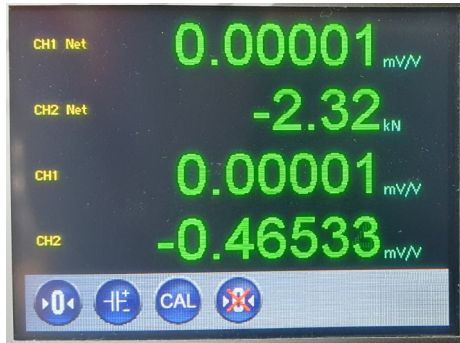
TE_Amplifier.cat is the catalogue file and the **usb_driver.inf** the corresponding information file.

The actual driver "Usbser.sys" is provided by Microsoft and should have been installed with Windows.



If Windows is unable to install the device drivers or the device cannot be found, open Device Manager and search for the virtual COM port in the adapter settings. Select Reinstall driver and navigate to the path listed above. Confirm your entry and wait until Windows has entered the data.

3.5" TFT display with touch function



In the setup programme, the number of output channels (max. 8) is activated and filled with the desired measured values. Up to 8 measured values are then displayed on the screen. (see under General Information)

Meaning of the buttons below the display (touch function):



Tare / zero the measured value



Reset peak values



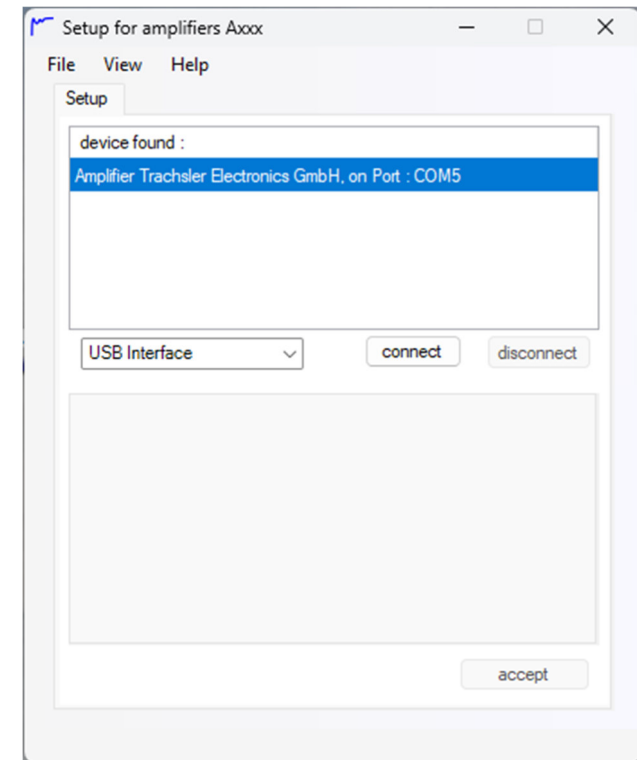
Perform auto-calibration once



Taring / Zeroing Undo

Connect to the device via the setup programme

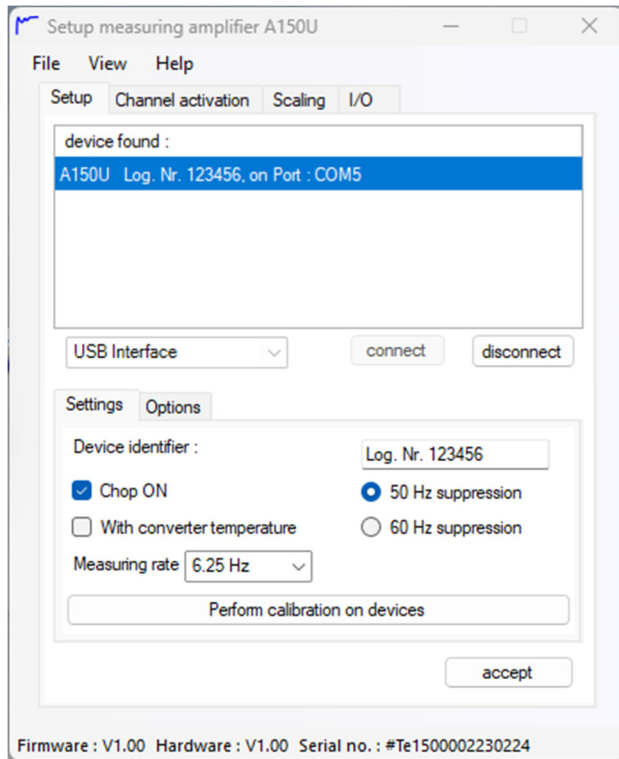
Select the «USB interface» from the list of interfaces:



The USB 2.0 interface is provided as a COM port. Multiple connected devices are listed.

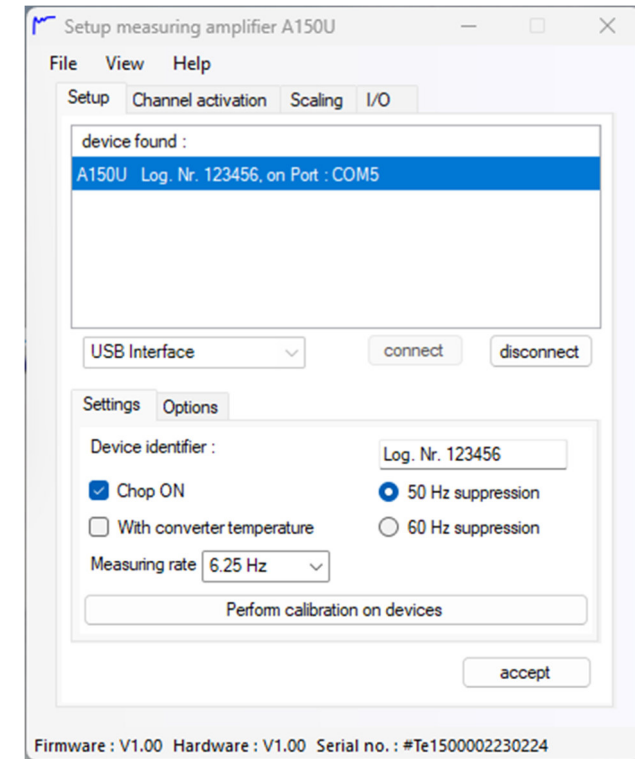
Select «Connect» to start communication with the measurement amplifier.

Select device identifier



★ You can assign an identifier to the device. This will be displayed in the list of found devices, among other places.

Measurement amplifier settings



Chop ON: This setting is used to minimise offset drift when the measurement rate is less than 300 Hz.

If required, the transducer temperature of Channel 1 can be displayed in the setup programme.

Noise reduction (filter) can be set to the currently active mains frequency.

The measurement rate is usually set in the measurement programme used.

Perform device calibration



The measuring amplifier does not require sporadic auto-calibration, but internal device calibration can be performed manually.

Channel activation, user designation, user unit

Assign the desired measured values to the output channels. The names of the user parameter sets [CH1...5] can be changed if desired. The display shows, for example, S1 Net. The units are assigned to the parameter set and must be entered accordingly. They are used for user scaling.



The user unit is also displayed in the measured value display and is used in X-Link Ready for automatic layer summarisation.

Some measured values, such as the device temperature, the AD converter raw values, or the bridge detuning in [mV/V], are not scalable. User scaling is performed via the AD converter raw value with corresponding bridge detuning using a 2..11-point scaling or a polynomial scaling.

Perform user scaling

User scaling can be performed in two different ways, either multipoint scaling or polynomial scaling.

Multi-point scaling

Where the points are assigned manually (e.g. according to the data sheet) or via load steps of a sensor using a testing machine. In the latter case, it is possible to read in the measured value [mV/V] at the corresponding load and enter the user-scaled value.



The decimal point of the user-scaled value is set at the first decimal place. Specify how many decimal places you require and enter the first decimal place accordingly. In the following example, three decimal places are required for user scaling.

You could also perform scaling in [mV/V] to obtain user scaling in [mV/V], with the advantages of multi-point scaling/polynomial scaling. (Linearisation)

| Point | Input (kN) | Output (mV/V) | read |
|--|------------|---------------|------|
| <input checked="" type="checkbox"/> 1. Point | 0.000 | 0.00000 | read |
| <input type="checkbox"/> 2. Point | 10.000 | 2.00000 | read |
| <input type="checkbox"/> 3. Point | 0.000 | 0.00000 | read |
| <input type="checkbox"/> 4. Point | 0.000 | 0.00000 | read |
| <input type="checkbox"/> 5. Point | 0.000 | 0.00000 | read |
| <input type="checkbox"/> 6. Point | 0.000 | 0.00000 | read |
| <input type="checkbox"/> 7. Point | 0.000 | 0.00000 | read |
| <input type="checkbox"/> 8. Point | 0.000 | 0.00000 | read |
| <input type="checkbox"/> 9. Point | 0.000 | 0.00000 | read |
| <input type="checkbox"/> 10. Point | 0.000 | 0.00000 | read |
| <input type="checkbox"/> 11. Point | 0.000 | 0.00000 | read |

use scale for : Sensor 1 [User scaling]

accept

Firmware : V1.00 Hardware : V1.00 Serial no. : #Te1500002230224

To release further points, tick the checkbox next to the corresponding points.



The multi-point scaling of the corresponding hardware channel is active if the check mark in point 1 is set. (Otherwise, the polynomial function is active)

The decimal point of the input variable [mV/V] cannot be changed, as it was set during device calibration.

Perform the scaling for hardware channels 1...4 according to your specifications. To do this, select the corresponding «Channel x [user scaling]»

Polynomial scaling

Setup measuring amplifier A150U

File View Help

Setup Channel activation Scaling I/O

Linear multipoint Polynomial

The polynomially scale will be active, when no checkmark is set in the multiple scale tab

$f(x) = a \cdot x^3 + b \cdot x^2 + c \cdot x + d$

const [a]: 1.372E-05

const [b]: 2.1

const [c]: -2.5E+85

const [d]: -5.3

Anzahl Nachkomastellen: 5

use scale for: Sensor 1 [User scaling]

accept

Firmware : V1.00 Hardware : V1.00 Serial no. : #Te1500002230224

For example, use EXCEL to calculate a polynomial function with 4 constants and enter the values accordingly.



To insert the values into the respective constants, you must do this with the mouse (right-click Insert).

Decimal and scientific entries are permitted, as shown in the example above.

Activate and set limit values

The measuring amplifier has 8 limit value pairs. These are visually displayed in the respective measured value display. In the measuring programme, a sound file can be assigned to the limit values, which is played when active.

Setup measuring amplifier A150U

File View Help

Setup Channel activation Scaling I/O

Output Channel

☒ Measured value [mV/V]

☒ Net [user scaling]

☒ + Peak value [user scaling]

☒ - Peak value [user scaling]

☐ Measured value [mV/V]

☐ Gross [user scaling]

☐ Gross [user scaling]

☐ Gross [user scaling]

| | Limit 1 > | Einheit | aktiv | Limit 2 > | Einheit | aktiv |
|--------------------------|-----------|---------|-------|-----------|---------|-------|
| <input type="checkbox"/> | -1.00000 | mV/V | HIGH | 1.00000 | mV/V | LOW |
| <input type="checkbox"/> | 0.000 | kN | HIGH | 0.000 | kN | HIGH |
| <input type="checkbox"/> | 0.000 | kN | HIGH | 0.000 | kN | HIGH |
| <input type="checkbox"/> | 0.000 | kN | HIGH | 0.000 | kN | HIGH |
| <input type="checkbox"/> | 0.00000 | mV/V | HIGH | 0.00000 | mV/V | HIGH |
| <input type="checkbox"/> | 0.000 | kN | HIGH | 0.000 | kN | HIGH |
| <input type="checkbox"/> | 0.000 | kN | HIGH | 0.000 | kN | HIGH |
| <input type="checkbox"/> | 0.000 | kN | HIGH | 0.000 | kN | HIGH |

accept

Firmware : V1.00 Hardware : V1.00 Serial no. : #Te1500002230224

The current output channels correspond to the settings you have made in the channel activation and serve only as an overview of the limit value settings, as does the check mark that indicates which output channel(s) are currently active. (Top)

To activate a limit value pair, click the checkbox for the limit value pair you want to activate. The assignment is displayed in grey.



The decimal points of the respective limit value pairs are adopted from the scaling performed. In this case, from the measured value in [mV/V] with 5 decimal places.

To enter the limit values, e.g. in Limit 1, double-click in the Limit 1 field (e.g. Limit 1 > of the measured value in [mV/V]) and enter -1.

To change the switching direction, double-click in the respective field under Active and select between Low / High. (e.g. active HIGH means that in our example, the limit value of the 'measured value [mV/V]' is triggered when it is greater than -1mV/V.

Proceed in the same way with Limit 2.

In our example, Limit 2 is triggered by deactivating the limit value when the measured value is greater than 1mV/V.



Hysteresis is not supported by the measuring amplifier

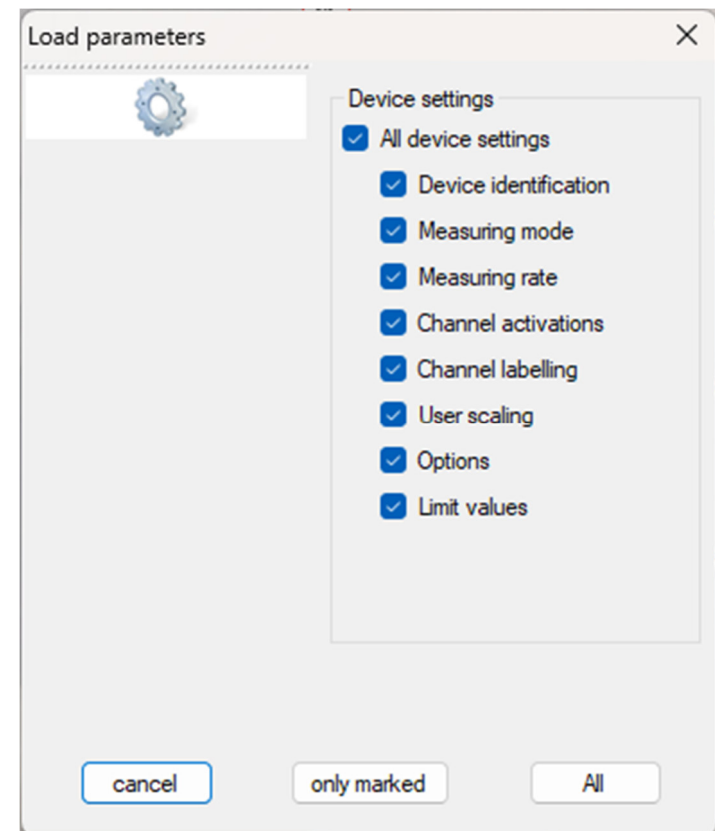
Load / save settings

All settings made on the device can be saved and loaded. Select «File» in the menu to save/load settings



Load settings:

You can choose exactly what you want to load. Select the appropriate option.



Page view Printer selection Print settings

To do this, select «File» > «Page view» from the menu.

The device settings can also be printed out so that a log can be filed after calibration.

Example page view:



Select a printer under Printer Selection and print the page(s)

Settings from amplifier A150U :



Serial number : #Te1500002230224
Firmware version : 1.00
Hardware version : 1.00

Amplifier settings :

Device identifier : Log. Nr. 123456
CHOP : On, Without converter temperature, 50 Hz suppression, Sample rate : 6.25 Hz
Options : Tare values will not be saved power down protected
Measurement values in mV/V will be set to zero

Channel activation (active output channels) :

active Output Channel 1 : Measured value [mV/V]
active Output Channel 2 : Net [user scaling]
active Output Channel 3 : + Peak value [user scaling]
active Output Channel 4 : - Peak value [user scaling]
inactive Output Channel 5 : Measured value [mV/V]
inactive Output Channel 6 : Gross [user scaling]
inactive Output Channel 7 : Gross [user scaling]
inactive Output Channel 8 : Gross [user scaling]

Parameter set :

| | P1 | P2 | P3 | P4 | P5 |
|--------|----|----|----|----|----|
| User : | S1 | S2 | S3 | S4 | S5 |
| Unit : | kN | kN | kN | kN | kN |

Parameter set 1 : (multipoint scale)

| Point | Active | Value | Unit | Scale | Offset |
|-----------|----------|----------|--------|-------------|--------|
| 1 .Point | active | 0.000kN | equals | 0.00000mV/V | |
| 2 .Point | | 10.000kN | equals | 2.00000mV/V | |
| 3 .Point | inactive | 0.000kN | equals | 0.00000mV/V | |
| 4 .Point | inactive | 0.000kN | equals | 0.00000mV/V | |
| 5 .Point | inactive | 0.000kN | equals | 0.00000mV/V | |
| 6 .Point | inactive | 0.000kN | equals | 0.00000mV/V | |
| 7 .Point | inactive | 0.000kN | equals | 0.00000mV/V | |
| 8 .Point | inactive | 0.000kN | equals | 0.00000mV/V | |
| 9 .Point | inactive | 0.000kN | equals | 0.00000mV/V | |
| 10 .Point | inactive | 0.000kN | equals | 0.00000mV/V | |
| 11 .Point | inactive | 0.000kN | equals | 0.00000mV/V | |

Parameter set 2 : (multipoint scale)

| Point | Active | Value | Unit | Scale | Offset |
|-----------|----------|----------|--------|-------------|--------|
| 1 .Point | active | 0.000kN | equals | 0.00000mV/V | |
| 2 .Point | | 10.000kN | equals | 2.00000mV/V | |
| 3 .Point | inactive | 0.000kN | equals | 0.00000mV/V | |
| 4 .Point | inactive | 0.000kN | equals | 0.00000mV/V | |
| 5 .Point | inactive | 0.000kN | equals | 0.00000mV/V | |
| 6 .Point | inactive | 0.000kN | equals | 0.00000mV/V | |
| 7 .Point | inactive | 0.000kN | equals | 0.00000mV/V | |
| 8 .Point | inactive | 0.000kN | equals | 0.00000mV/V | |
| 9 .Point | inactive | 0.000kN | equals | 0.00000mV/V | |
| 10 .Point | inactive | 0.000kN | equals | 0.00000mV/V | |
| 11 .Point | inactive | 0.000kN | equals | 0.00000mV/V | |

Sonntag , 14.12.2025 11:56:56

Seite 1

Parameter set 3 : (multipoint scale)

| | | | | |
|-----------|----------|----------|--------|-------------|
| 1. Point | active | 0.000kN | equals | 0.00000mV/V |
| 2. Point | | 10.000kN | equals | 2.00000mV/V |
| 3. Point | inactive | 0.000kN | equals | 0.00000mV/V |
| 4. Point | inactive | 0.000kN | equals | 0.00000mV/V |
| 5. Point | inactive | 0.000kN | equals | 0.00000mV/V |
| 6. Point | inactive | 0.000kN | equals | 0.00000mV/V |
| 7. Point | inactive | 0.000kN | equals | 0.00000mV/V |
| 8. Point | inactive | 0.000kN | equals | 0.00000mV/V |
| 9. Point | inactive | 0.000kN | equals | 0.00000mV/V |
| 10. Point | inactive | 0.000kN | equals | 0.00000mV/V |
| 11. Point | inactive | 0.000kN | equals | 0.00000mV/V |

Parameter set 4 : (multipoint scale)

| | | | | |
|-----------|----------|----------|--------|-------------|
| 1. Point | active | 0.000kN | equals | 0.00000mV/V |
| 2. Point | | 10.000kN | equals | 2.00000mV/V |
| 3. Point | inactive | 0.000kN | equals | 0.00000mV/V |
| 4. Point | inactive | 0.000kN | equals | 0.00000mV/V |
| 5. Point | inactive | 0.000kN | equals | 0.00000mV/V |
| 6. Point | inactive | 0.000kN | equals | 0.00000mV/V |
| 7. Point | inactive | 0.000kN | equals | 0.00000mV/V |
| 8. Point | inactive | 0.000kN | equals | 0.00000mV/V |
| 9. Point | inactive | 0.000kN | equals | 0.00000mV/V |
| 10. Point | inactive | 0.000kN | equals | 0.00000mV/V |
| 11. Point | inactive | 0.000kN | equals | 0.00000mV/V |

Parameter set 5 : (multipoint scale)

| | | | | |
|-----------|----------|----------|--------|-------------|
| 1. Point | active | 0.000kN | equals | 0.00000mV/V |
| 2. Point | | 10.000kN | equals | 2.00000mV/V |
| 3. Point | inactive | 0.000kN | equals | 0.00000mV/V |
| 4. Point | inactive | 0.000kN | equals | 0.00000mV/V |
| 5. Point | inactive | 0.000kN | equals | 0.00000mV/V |
| 6. Point | inactive | 0.000kN | equals | 0.00000mV/V |
| 7. Point | inactive | 0.000kN | equals | 0.00000mV/V |
| 8. Point | inactive | 0.000kN | equals | 0.00000mV/V |
| 9. Point | inactive | 0.000kN | equals | 0.00000mV/V |
| 10. Point | inactive | 0.000kN | equals | 0.00000mV/V |
| 11. Point | inactive | 0.000kN | equals | 0.00000mV/V |

Limit switch settings :

| | | | |
|-----------------------------|-----------------------|-------------|--------|
| 1. Pair of limit values | Source | Threshold | active |
| inactive : Limit switch 1 > | Measured value [mV/V] | 0.00000mV/V | HIGH |
| inactive : Limit switch 2 > | Measured value [mV/V] | 0.00000mV/V | HIGH |

Limit switch settings :

| | | | |
|-----------------------------|--------------------|-----------|--------|
| 2. Pair of limit values | Source | Threshold | active |
| inactive : Limit switch 1 > | Net [user scaling] | 0.000kN | HIGH |
| inactive : Limit switch 2 > | Net [user scaling] | 0.000kN | HIGH |

Limit switch settings :

| | | | |
|-----------------------------|-----------------------------|-----------|--------|
| 3. Pair of limit values | Source | Threshold | active |
| inactive : Limit switch 1 > | + Peak value [user scaling] | 0.000kN | HIGH |
| inactive : Limit switch 2 > | + Peak value [user scaling] | 0.000kN | HIGH |

Sonntag , 14.12.2025 11:56:56

Seite 2

Limit switch settings :

| | | | |
|-----------------------------|-----------------------------|-----------|--------|
| 4. Pair of limit values | Source | Threshold | active |
| inactive : Limit switch 1 > | - Peak value [user scaling] | 0.000kN | HIGH |
| inactive : Limit switch 2 > | - Peak value [user scaling] | 0.000kN | HIGH |

Limit switch settings :

| | | | |
|-----------------------------|-----------------------|-------------|--------|
| 5. Pair of limit values | Source | Threshold | active |
| inactive : Limit switch 1 > | Measured value [mV/V] | 0.00000mV/V | HIGH |
| inactive : Limit switch 2 > | Measured value [mV/V] | 0.00000mV/V | HIGH |

Limit switch settings :

| | | | |
|-----------------------------|----------------------|-----------|--------|
| 6. Pair of limit values | Source | Threshold | active |
| inactive : Limit switch 1 > | Gross [user scaling] | 0.000kN | HIGH |
| inactive : Limit switch 2 > | Gross [user scaling] | 0.000kN | HIGH |

Limit switch settings :

| | | | |
|-----------------------------|----------------------|-----------|--------|
| 7. Pair of limit values | Source | Threshold | active |
| inactive : Limit switch 1 > | Gross [user scaling] | 0.000kN | HIGH |
| inactive : Limit switch 2 > | Gross [user scaling] | 0.000kN | HIGH |

Limit switch settings :

| | | | |
|-----------------------------|----------------------|-----------|--------|
| 8. Pair of limit values | Source | Threshold | active |
| inactive : Limit switch 1 > | Gross [user scaling] | 0.000kN | HIGH |
| inactive : Limit switch 2 > | Gross [user scaling] | 0.000kN | HIGH |

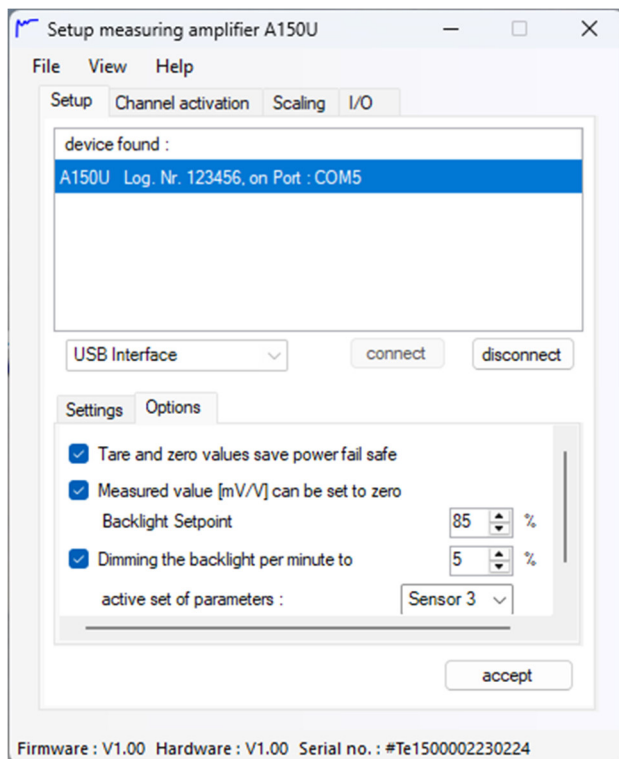
Sonntag , 14.12.2025 11:56:57

Seite 3

Save tare and zero values in a power failure-proof manner

The tare and zero values can be stored in the device EEPROM in a power failure-proof manner so that they are not lost in the event of a power failure.

To do this, select the «Options» tab.

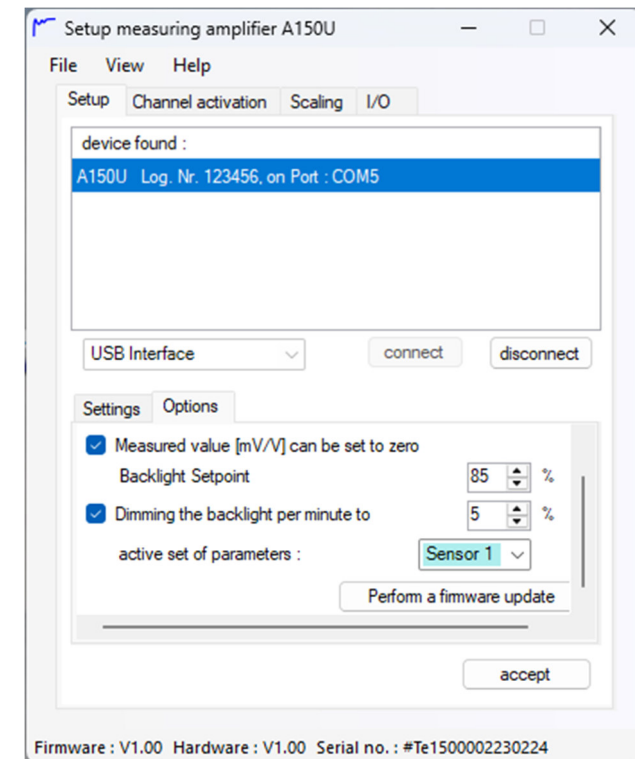


Activate tare and zero values, save them as fail-safe and apply the setting.

Select active parameter set

An active parameter set can be selected in the Options menu. Change the active parameter set if you want to scale a different parameter set.

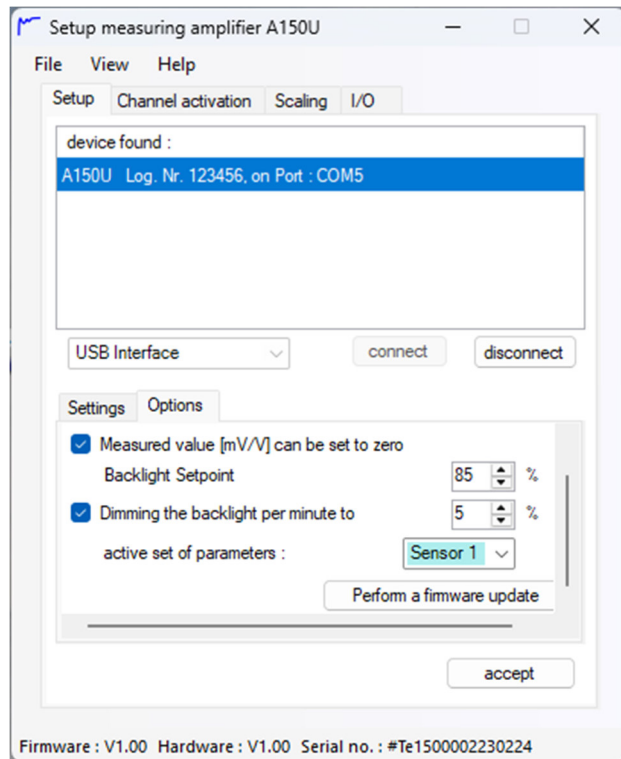
To do this, select the «Options» tab.



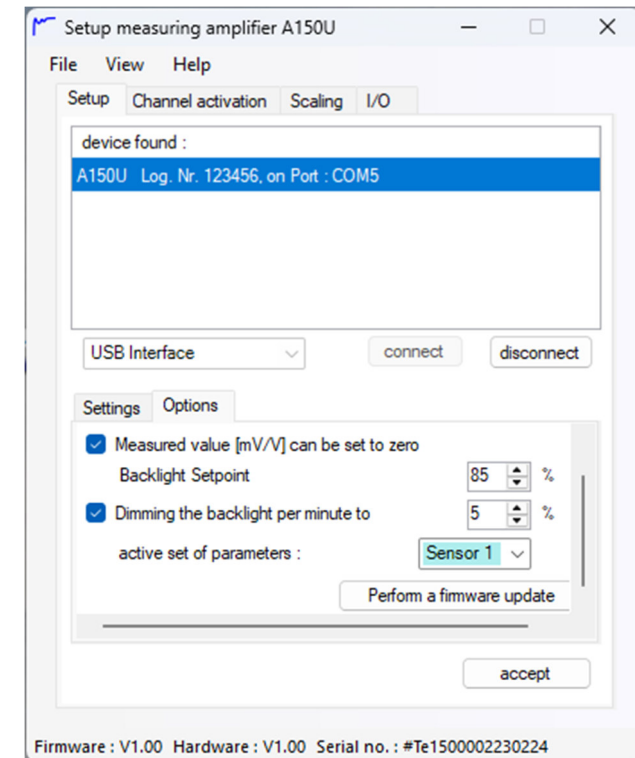
Measured values [mV/V] Zero-adjustable

The measured value «bridge offset» in [mV/V] is an absolute value. This option was introduced to keep it resettable to zero.

To do this, select the «Options» tab



Dimming the TFT backlight and setting the screensaver



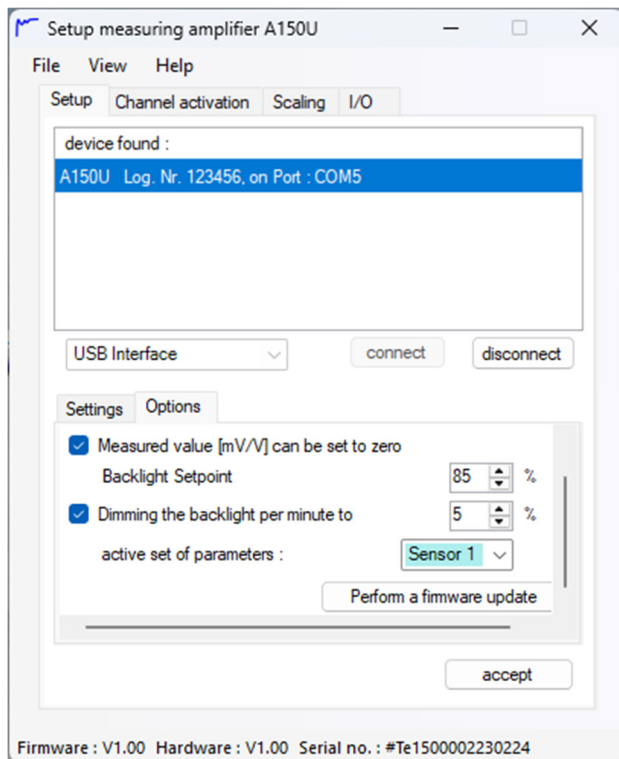
The TFT backlight can be dimmed to a fixed percentage. To do this, select the «Options» tab and change the setpoint.

If desired, a screensaver can also be activated, which continuously dims the display to a defined value every minute.

To interrupt the screensaver during operation, briefly press the I/O button. The device will not switch off unless the I/O button is pressed for approx. 2-3 seconds.

Perform firmware update

To do this, select the «Options» tab and scroll down.



The device's operating system (firmware) can be updated. Follow the instructions displayed on the screen.



Only activate this function if you have the appropriate update and an update is required.

Once the firmware update has started, communication must not be interrupted!



If an error occurs (timeout, firmware not for this device, or not available), the device can be restored to operational status with the current firmware as follows, provided that the flash memory has not yet been deleted:

Disconnect the power cable and wait until the device is de-energised (support capacitors in the power supply unit discharged). The power cord can then be reconnected and the device switched on using the I/O button on the front of the device.

The LED display will show 'Load...' again. Repeat the procedure 5 times. The device will then be ready for operation again with the active firmware version.

If the procedure does not restart the device in the event of an error, the device's flash memory has been deleted. In this case, firmware MUST be loaded.

In the event of an error, send the device to the manufacturer with a description of the error.



During an active firmware update, the update status is shown on the LED display.

Measured value display



The measured value display in the setup programme shows 8 measured values, depending on the activated output channels.

Meaning of the buttons below the display:



Tare / zero the measured value



Reset peak values



Perform auto-calibration once



Taring / Zeroing Undo

Switching the device on/off

To switch on the device, connect the power cable to the mains voltage socket and press the «I/O» button on the front of the device until the device name appears on the TFT display.

To switch off the device, press the «I/O» button for approx. 2 seconds. The message

«Hold the Key to Power down» will appear on the LCD display.

If the «I/O» button is now deactivated, the device will continue to operate. If the screen saver is active, the brightness of the backlight will be reset to the target value.

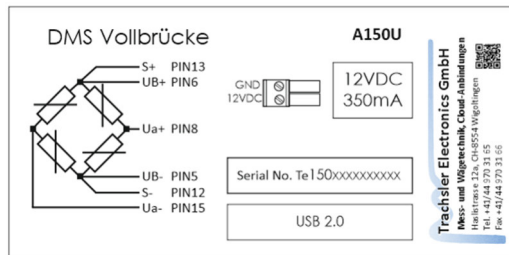
If the LCD background inverts when the «I/O» button is pressed for a longer period of time, it can be deactivated. The device will then switch off.

Attention!

Before opening the device, the power cable MUST always be disconnected from the device. Since the device is not completely de-energised when switched off using the «I/O» button.

Nameplate

The pin assignment of the full bridge can be found on the type plate on the rear of the device.



Sensor connection

The sensors are connected via a 15-pin DSUB device socket using 6-wire technology.

DMS Vollbrücke 60...1000Ohm

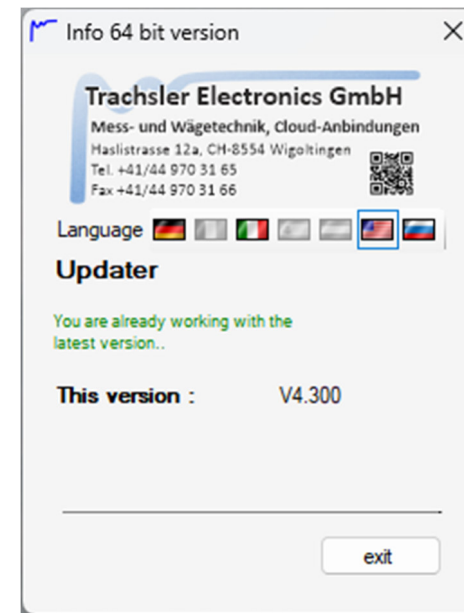
- PIN 8 Positive output voltage Ua+
- PIN 6 Positive bridge voltage UB+
- PIN 5 negative bridge voltage UB-
- PIN 15 negative output voltage Ua-
- PIN 13 positive sense line S+
- PIN 12 negative sense line S-

Shield is attached to the housing over a large area on the DSUB connector

Check whether an update is available

To do this, select «Help» -> «Info» from the menu.

To make software maintenance easier for you, you have the option of performing a manual update check. This is only done at your request by clicking on the «Check for updates» button. You must have an active connection to the internet. After the check, you will be informed if a newer software version is available. Click on the «More information» hyperlink to find out what changes have been made.



No statistics are kept, no personal data is collected, and no data is sent from your computer to a server. Data transfer is limited solely to reading data and, if necessary, downloading software-related components..



A downloaded version of the programme will be saved to your desktop.

Before the new setup programme can be installed, the old version must be uninstalled. To do this, you must have administrator rights.

Select user language

If you wish to change the user language of the setup programme, select the desired language using the flags. The language will be available after restarting the programme.



Technical specifications

Specifications :

| | | |
|---|------|---|
| Accuracy class | | 0.01 |
| Bridge excitation voltage DC | V | 5 |
| Connectable Sensors | | |
| DMS Fullbridge | Ohm | 30 ... 1000 |
| Including sense technology | | |
| Maximum cable length | m | 25 |
| Sensor connection | | DB15 Pin |
| Measuring range / Bridge alignment range | mV/V | +/-7mV/V |
| AD converter type | | Sigma-Delta ($\Sigma\Delta$) |
| Internal resolution up to | bit | 24 |
| User Scaling | | 2 ... 11 point, or polynomial of degree 3, with 4 coefficients |
| Available number of parameter sets | | 5pcs. |
| Digital filter | | Notch - Filter (depended from sample rate) |
| Internal Sample range | Hz | 0.625 ... 4800 |
| Data transmission scaled with an enabled output channel | Hz | 0.625 ... 150 |
| * Linearity deviation : | % | <0.004 |
| * Temperature effect per K zero point measuring sensitivity | % | after 30min operating durations <0.005 <0.0025 |
| Operating temp. range | °C | -10 ... +40 |
| Peak value memory | | 2 pieces per channel (user scaled) |
| Limit values (in the measured value status) | | 16 pieces definable |
| Supply voltage DC | V | 6.5 ... 13.5V |
| max. voltage ripple | V | ± 200mV |
| Current consumption | | < 350mA |
| Interface | | USB 2.0 |
| IP Code | | IP 54 |
| Dimensions [L * W * H] | mm | 135 * 85 * 35 |
| Weight | kg | < 0.5 |

* 3mV/V calibrated, 2.5Hz sample rate