

## Operating instructions for the Latschbacher electronic measuring device

Model: MKE4

Version: 1.0



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## 2 Introduction

Thank you for choosing the MKE4 electronic measuring clamp from Latschbacher. This precision instrument has been developed to enable you to take accurate and efficient measurements in forestry. The digital display and robust materials ensure reliable performance even under demanding conditions.

This operating manual contains important information on the safe and proper use, maintenance and care of your measuring clamp. Please read this manual carefully before using the device and keep it for future reference.

## 3 Safety instructions

- **Intended use:** The Latschbacher measuring clamp is intended exclusively for measuring standing or lying timber. Any other use is considered improper.
- **Damage:** Check the device for visible damage before each use. Do not use a damaged device.
- **Cleaning:** Do not use aggressive chemicals, solvents or abrasive cleaning agents for cleaning. See section 9 "Maintenance and care".
- **Temperature:** Avoid extreme temperatures and direct sunlight for long periods of time, as this can impair the function of the electronics.
- **Water:** Although the measuring clamp is generally splash-proof, it should not be completely immersed in water. Avoid moisture getting into the electronics.
- **Children:** Keep the device out of the reach of children.
- **Repairs:** Do not open the device yourself. Repairs may only be carried out by authorised personnel.
- **Batteries:** Observe the correct polarity when replacing the batteries. Dispose of empty batteries in accordance with local regulations.

## 4 Scope of delivery

After unpacking, please check that all the components listed below are included:

- Latschbacher MK4 electronic measuring device
- USB-C charging cable

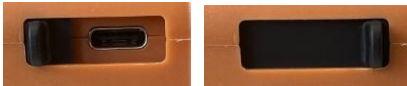
If any parts are missing or damaged, please contact your dealer or Latschbacher customer service immediately.

## 5 Device overview



- **Measuring clamps (fixed/movable):** The two aluminium clamps that are placed around the wood for measuring.
- **Display unit:** The digital display that shows the measurement results.
- **Keypad/control elements:**
  - **Action keyboard (small, on the front)**
    - **(1) ON/OFF button:** For switching the device on and off.

- **(2) Menu button:** Special functions, depending on the setting, e.g. next wood type
- **(3) Send button:** For sending the diameter to the app
- **Function keypad (large, on the top)**
  - **Function keys:** (F1) to (F9) for quick entry of assortments
  - **Number buttons:** For entering lengths
- **USB-C charging socket:** For charging the MKE4. Always keep the slider closed when measuring outdoors to protect the charging socket from water and dirt.



- **Guide rail:** The rail on which the movable measuring arm slides.

## 6 Initial use of the

Fully charge the measuring clamp before using it for the first time. The Latschbacher measuring clamp is usually ready for use immediately.

## 7 Download the GLM Global Logs Management app

The logger can be connected via Bluetooth to the following Latschbacher products:

- GLM (Global Logs Management) (free for MKE4 users)
- Mobile log recording NG (subject to a fee)
- Standing measurement for Switzerland (subject to a fee)
- MHNG Mobile Log Recording NG (subject to a fee)

If you do not yet use any of these products, download the GLM app to your iOS or Android device.



Google PlayStore:

<https://play.google.com/store/apps/details?id=com.latschbacher.glm&hl=en>



Apple iOS App Store:

<https://apps.apple.com/at/app/global-logs-management/id1479055933>

## 7.1 Setting up the Bluetooth connection

- (1) Open the "Settings" menu on your smartphone.
- (2) In the "Settings" menu, scroll to the menu item "Connected devices" or "Bluetooth" (the exact wording may vary depending on your smartphone).
- (3) Make sure that Bluetooth is turned on.
- (4) Under the Bluetooth settings, your phone will start searching for available devices. Wait until the device you want to pair appears in the list. This may take a few seconds or longer, depending on the device and its proximity. The device ID looks something like this: "EMK Caliper\_xxxx"
- (5) Once the device appears, tap its name to start the pairing process.
- (6) When prompted, enter a PIN or passcode to pair the devices. This step may not be necessary for all devices.
- (7) Wait until the pairing process is complete.

Note: If the caliper does not appear in Bluetooth/Available Devices, pairing can also be done directly in the GLM app when you are in the master recording.

## 7.2 One-time registration process for new MKE4 users

If you do not yet have GLM login details, you must register once free of charge. To do this, press "New MKE user":

## Anmeldung

# Global Logs Management

Benutzername

Passwort

Anmelden

Passwort vergessen

Neuer MKE-Benutzer

Verbindungseinstellungen

GLOBAL-LOGS-MANAGEMENT.COM

**LATSCHBACHER**  
... marks quality

Copyright © 2025 Latschbacher GmbH

Then enter your details:

- **Language for the installation process:** The language of the application can be selected later in "Settings".
- **Configuration:** Select the basic configuration that best suits your region.
- **Email address and password:** Enter your email address. Choose a password. You will need this information later to log in to the app.
- **Name, address and contact details:** Enter your name and address.
- **MKE serial number:** The MKE serial number is 5 digits long and can be found on both measuring arms.

[< Anmeldung](#) Neuer MKE-Benutzer

Sprache

Konfiguration

Mail-Adresse

Passwort

Name

Straße

PLZ

Ort

Land

Telefonnummer

MKE-Seriennummer

**Benutzer erstellen**

After clicking on "Create user", you will receive an email with a confirmation code. Please enter this code in the next window:

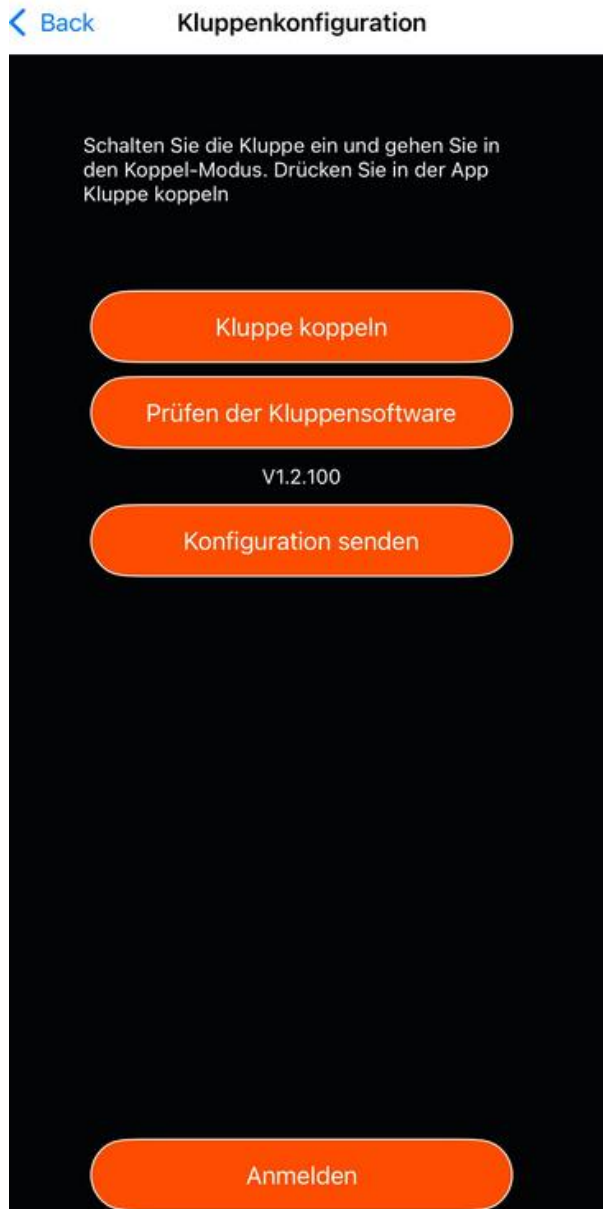
[< Back](#) **Bestätigung**

Wir haben Ihnen eine Mail mit einem Bestätigungscode an folgende Mail zugesendet:  
Geben Sie hier bitte den 6-stelligen Code ein:

Bestätigungscode

**Bestätigen**

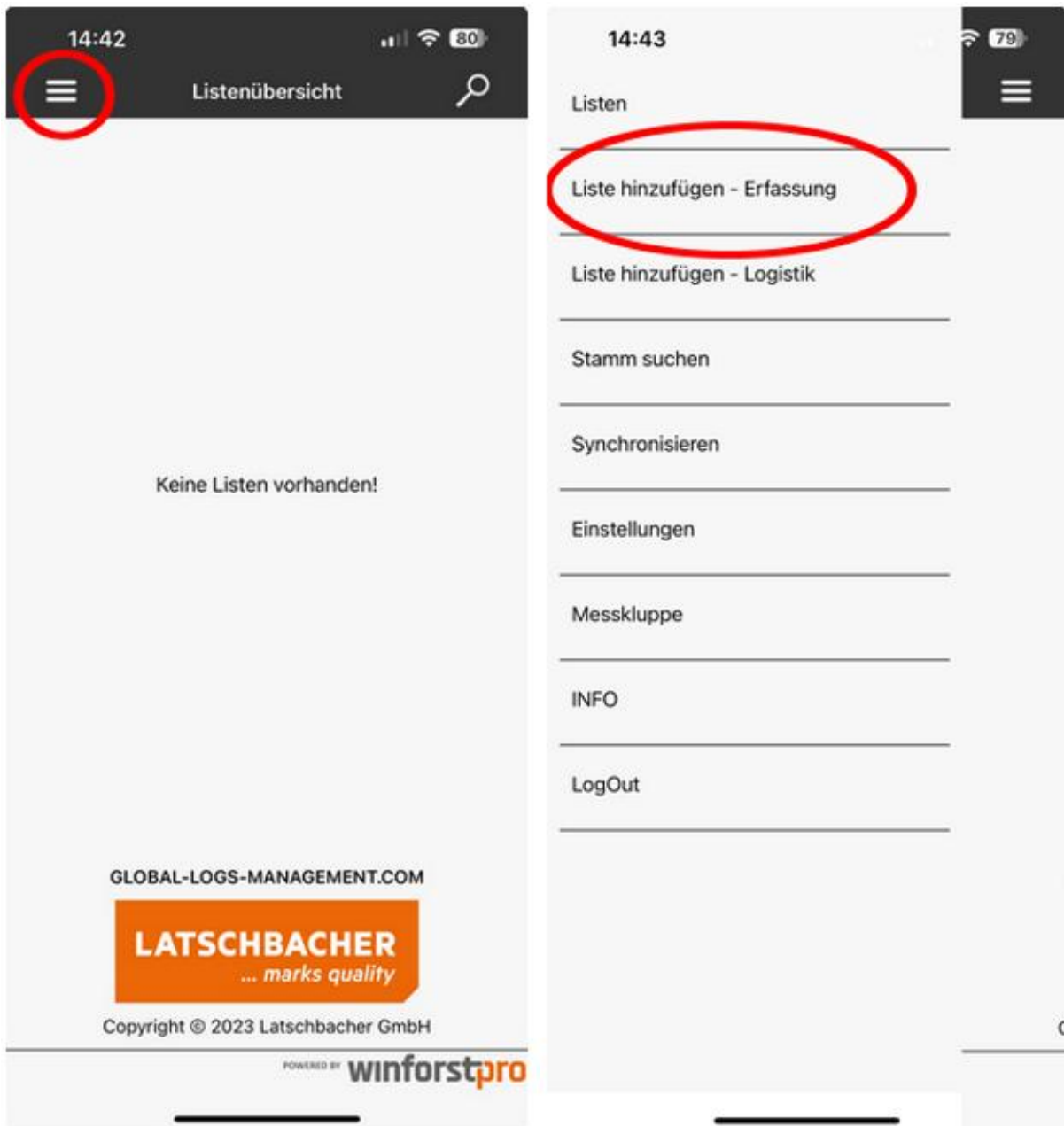
You will then be taken to the clamp configuration:



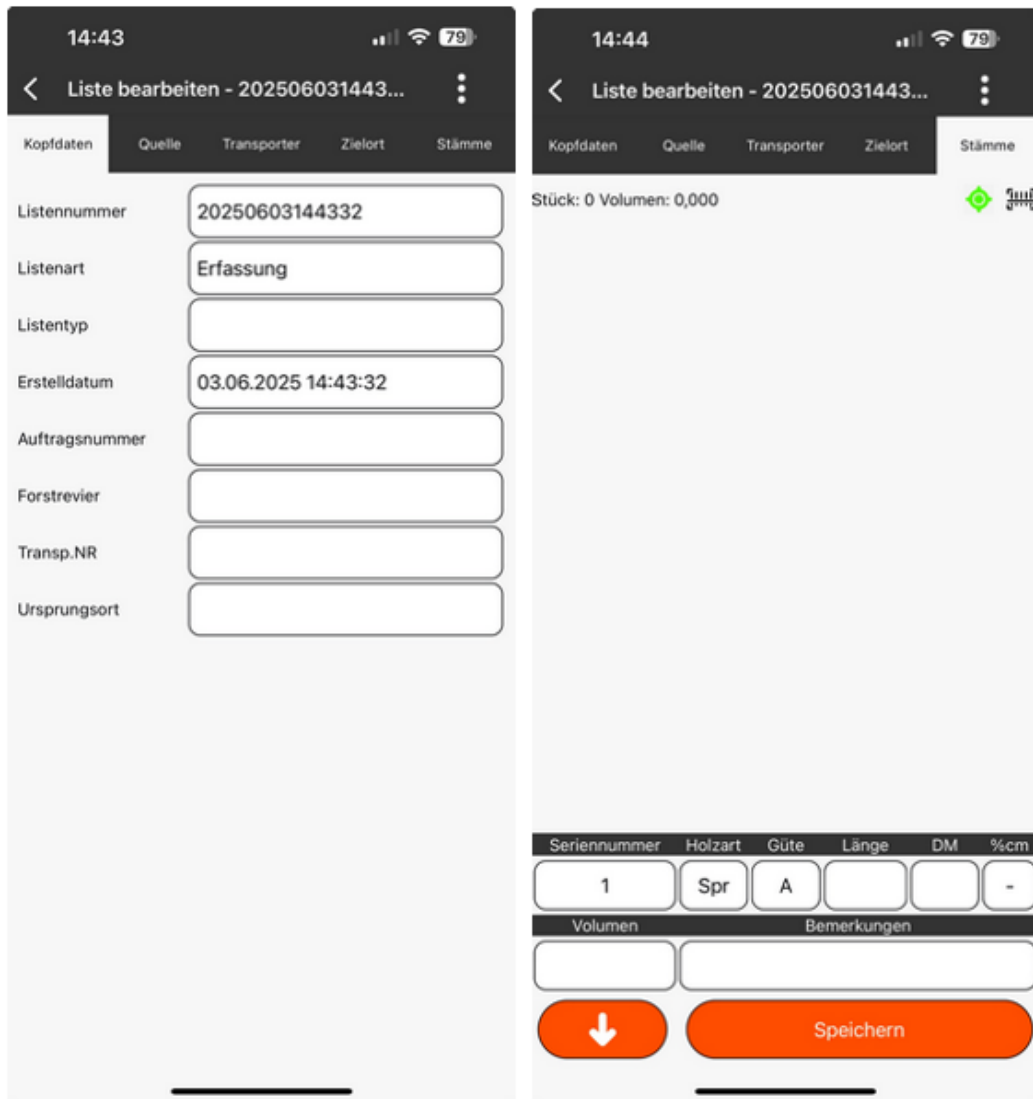
- **Connect the Kluppe:** Establish a Bluetooth connection with your Kluppe (see point 7.1).
- **Check the Kluppe software:** Here you can check whether the operating system of the MKE4 is still up to date. If a new version is available, it will be transferred to the MKE and updated.
- **Send configuration:** This transfers all recorded and selected settings to the MKE4.
- **Log in:** Log in to the GLM app with your username and password.

### 7.3 Using the MKE with the GLM app (first steps)

Start the GLM app. Log in with your username and password. You are now in the main screen:



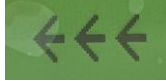
Create a new recording list in the context menu item "Add list – Recording".



When you switch to the "Stems" tab, the app connects to the Kluppe after a few seconds. A signal sounds and the Bluetooth symbol is displayed on the Kluppe and in the app.



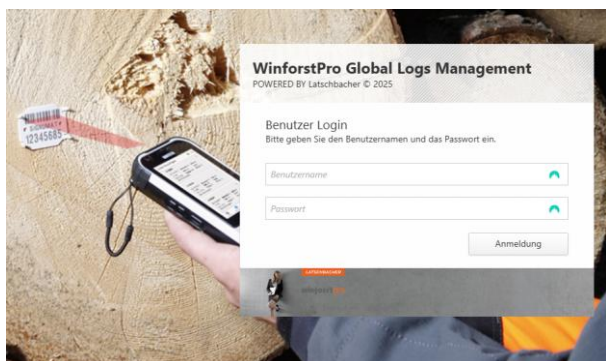
## 8 Basics of measurement

1. **Switching on:** Press the **ON/OFF button** for one second to switch on the measuring device. The display usually shows "0.0".
2. **Resetting the display:**
  - Display
    - 
  - Move the movable measuring arm all the way to the fixed measuring arm so that the measuring surfaces are flush.
3. **Measuring:**
  - Open the measuring clamp by moving the movable arm.
  - Guide the jaws around the object to be measured (e.g. tree trunk, round timber).
  - Carefully push the movable arm until both measuring arms are in light contact with the object. Be careful not to apply too much pressure to avoid deformation and incorrect measurements.
4. **Sending:** Press the send button to send the diameter to the app.

## 9 Settings and configuration in the web portal

You can make further settings for the measuring clamp in the GLM web portal:

<https://netlogistik.winforstpro.com/WfpGLM/Login.aspx>



To do this, log in with your user name and password.

You can configure the settings in the following menus:

- 1) Master data
- 2) Clamp configuration

Listenmanagement      Logistikzentrale      Auswertung      Einstellungen

Rindenabzugsverfahren

Zertifizierung

Zertifizierungsnummer

Vertrag

Vertragsnummer

Abteilung

Distrikt

Abteilung

Listenart

Kilometerstand

Durchführer

Genehmigungsnummer

Erstellungsgrund

Teilfläche

Unterabteilung

Transport

Address

Ort

Güte

Holzart

Transportnummer

Einheit

Volumen

Kubatur Maßstab

Firma

1 Stammdaten

2 Kluppenkonfiguration

## 9.1 Master data

In the master data, you can set selection entries for the GLM app. Important tables for the MKE are "Wood type" and "Quality":

## 9.2 Wood types

|   |  | Holzart |      |      |                                     |                                     |                                     |  |
|---|--|---------|------|------|-------------------------------------|-------------------------------------|-------------------------------------|--|
|   | Neu  | ID      | Kurz | LDNR | Für Einzelstämme gültig             | Für Polter gültig                   | Standard                            |  |
| ▶ | <a href="#">Bearbeiten</a> <a href="#">Löschen</a> | 126     | Fi   | 1    | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> |  |
| ▶ | <a href="#">Bearbeiten</a> <a href="#">Löschen</a> | 127     | Ta   | 2    | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/>            |  |
| ▶ | <a href="#">Bearbeiten</a> <a href="#">Löschen</a> | 128     | Bu   | 3    | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/>            |  |
| ▶ | <a href="#">Bearbeiten</a> <a href="#">Löschen</a> | 129     | Ei   | 4    | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/>            |  |
| ▶ | <a href="#">Bearbeiten</a> <a href="#">Löschen</a> | 130     | Lä   | 5    | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/>            |  |
| ▶ | <a href="#">Bearbeiten</a> <a href="#">Löschen</a> | 252     | Ki   | 6    | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/>            |  |
| ▶ | <a href="#">Bearbeiten</a> <a href="#">Löschen</a> | 253     | Es   | 7    | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/>            |  |
| ▶ | <a href="#">Bearbeiten</a> <a href="#">Löschen</a> | 254     | Ah   | 8    | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/>            |  |
| ▶ | <a href="#">Bearbeiten</a> <a href="#">Löschen</a> | 255     | Dg   | 9    | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/>            |  |
| ▶ | <a href="#">Bearbeiten</a> <a href="#">Löschen</a> | 256     | SK   | 10   | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/>            |  |
| ▶ | <a href="#">Bearbeiten</a> <a href="#">Löschen</a> | 295     | Bi   |      | <input checked="" type="checkbox"/> | <input type="checkbox"/>            | <input type="checkbox"/>            |  |
| ▶ | <a href="#">Bearbeiten</a> <a href="#">Löschen</a> | 296     | Er   |      | <input checked="" type="checkbox"/> | <input type="checkbox"/>            | <input type="checkbox"/>            |  |
| ▶ | <a href="#">Bearbeiten</a> <a href="#">Löschen</a> | 297     | Nu   |      | <input checked="" type="checkbox"/> | <input type="checkbox"/>            | <input type="checkbox"/>            |  |
| ▶ | <a href="#">Bearbeiten</a> <a href="#">Löschen</a> | 308     | Fo   | 11   | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/>            |  |
| ▶ | <a href="#">Bearbeiten</a> <a href="#">Löschen</a> | 309     | Av   | 12   | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/>            |  |

**Short:** Short name of the wood type

**LDNR:** Sequence number: Defines the order of the wood types

**Valid for individual logs:** The corresponding wood types must be checked for the MKE.

**Valid for stacks:** These wood types are only intended for stack recording and are irrelevant for MKE.

**Standard:** Defines the standard wood type for the GLM app.

### 9.3 Quality

Configure the quality table in the same way as the wood type table.

### 9.4 Cutting configuration

| Neu  | Global                              | Standard                 | Name       |
|--|-------------------------------------|--------------------------|------------|
| <a href="#">Bearbeiten</a><br><a href="#">Löschen</a><br><a href="#">Herunterladen</a><br><a href="#">Kopieren</a> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | CH_Liegend |
| <a href="#">Bearbeiten</a><br><a href="#">Löschen</a><br><a href="#">Herunterladen</a><br><a href="#">Kopieren</a> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | CH_Stehend |
| <a href="#">Bearbeiten</a><br><a href="#">Löschen</a><br><a href="#">Herunterladen</a><br><a href="#">Kopieren</a> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | Österreich |

You can define models for the log configuration. You can duplicate an existing model using "Copy". You can download the models in the GLM app and send them to the measuring log.

### 9.5 Configuration model

Allgemein

Holzart

Qualität

Funktionstaste F1

Funktionstaste F2

Funktionstaste F3

Funktionstaste F4

Funktionstaste F5

Funktionstaste F6

Funktionstaste F7

Funktionstaste F8

Funktionstaste F9

Funktionstaste F10

Funktionstaste F11

Einstellungen

Sprache

Name:\*

Standard:





















Konfiguration speichern

Abbrechen

#### 9.5.1 General

Define the model name and set it as the default model.

## 9.5.2 Wood type and quality

|                    |   |        |         |
|--------------------|---|--------|---------|
| Allgemein          | #   | Nummer | Holzart |
| Holzart            |  <a href="#">Löschen</a>   | 1      | Fi      |
| Qualität           |  <a href="#">Löschen</a>   | 2      | Ta      |
| Funktionstaste F1  |  <a href="#">Löschen</a>   | 3      | Lä      |
| Funktionstaste F2  |  <a href="#">Löschen</a>   | 4      | Fö      |
| Funktionstaste F3  |  <a href="#">Löschen</a>   | 5      | Ndh     |
| Funktionstaste F4  |  <a href="#">Löschen</a>   | 6      | Bu      |
| Funktionstaste F5  |  <a href="#">Löschen</a>   | 7      | Ei      |
| Funktionstaste F6  |  <a href="#">Löschen</a>   | 8      | Es      |
| Funktionstaste F7  |  <a href="#">Löschen</a>   | 9      | Ah      |
| Funktionstaste F8  |  <a href="#">Löschen</a>   | 10     | Lbh     |
| Funktionstaste F9  |  <a href="#">Löschen</a>   | 11     |         |
| Funktionstaste F10 |  <a href="#">Löschen</a>   | 12     |         |
| Funktionstaste F11 |  <a href="#">Löschen</a>   | 13     |         |
| Einstellungen      |  <a href="#">Löschen</a>   | 14     |         |
| Sprache            |  <a href="#">Löschen</a>   | 15     |         |
|                    |  <a href="#">Löschen</a> | 16     |         |
|                    |  <a href="#">Löschen</a> | 17     |         |
|                    |  <a href="#">Löschen</a> | 18     |         |
|                    |  <a href="#">Löschen</a> | 19     |         |
|                    |  <a href="#">Löschen</a> | 20     |         |

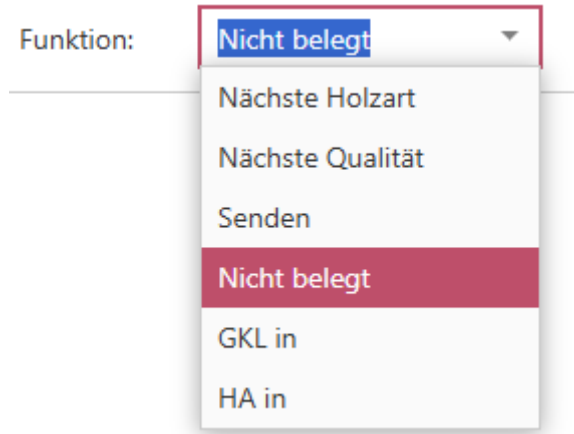
Define the wood types and qualities (grades) that should appear on the gauge here.

## 9.5.3 Function keys 1 - 9

|                    |   |
|--------------------|---|
| Allgemein          | Holzart: <input type="text" value="Fi"/>            |
| Holzart            | Güte: <input type="text"/>                          |
| Qualität           | Länge: <input type="text"/>                         |
| Funktionstaste F1  | Rindenabzug: <input type="text"/>                   |
| Funktionstaste F2  | Funktion: <input type="text" value="Nicht belegt"/> |
| Funktionstaste F3  |   |
| Funktionstaste F4  |   |
| Funktionstaste F5  |   |
| Funktionstaste F6  |   |
| Funktionstaste F7  |   |
| Funktionstaste F8  |   |
| Funktionstaste F9  |   |
| Funktionstaste F10 |   |
| Funktionstaste F11 |   |
| Einstellungen      |   |
| Sprache            |   |

The function keys F1 to F9, the two tick keys (F10) and the middle key on the small keyboard with the three horizontal lines (F11) allow you to specify the combination of wood type, grade, length and bark deduction, as well as various functions.

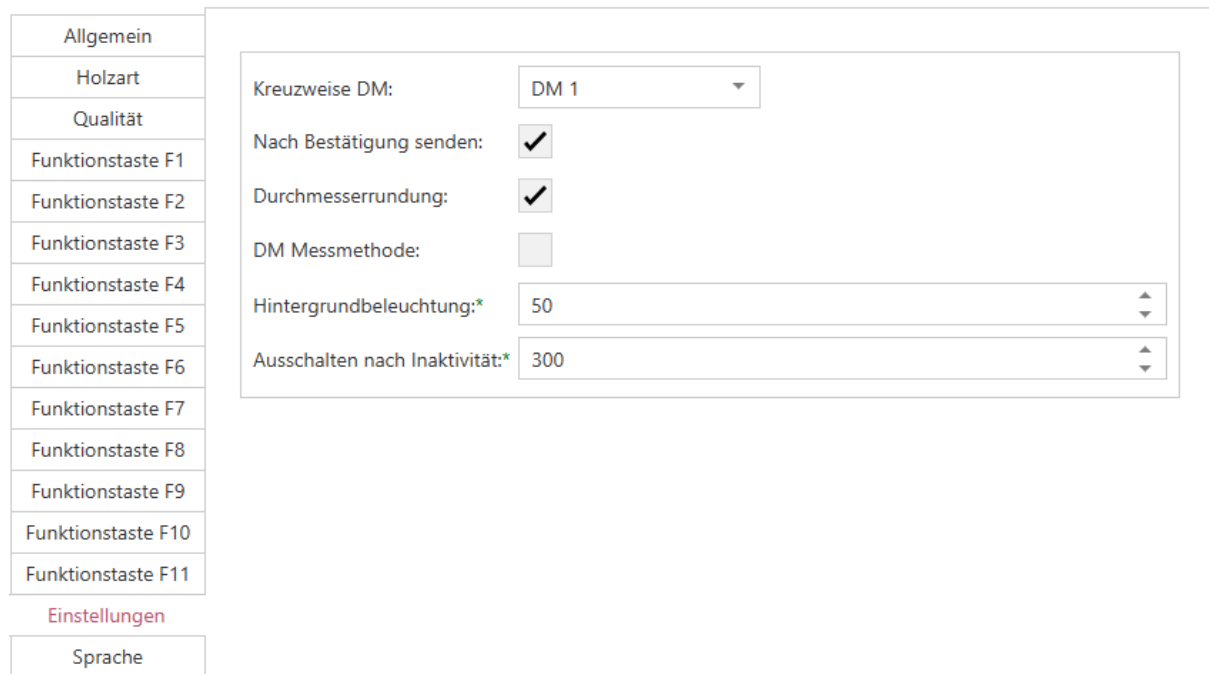
### 9.5.4 Function



This setting allows you to assign a special action to a function key.

- **To the next grade:** The function key scrolls through the grades/qualities
- **Send:** The function key sends the log via Bluetooth
- **GKL in:** After entering a number, the respective quality class is selected; the number entered must be two digits (e.g. the 7th quality is loaded with 07)
- **HA in:** After entering a number, the respective wood type is selected; the number entered must be two digits (e.g. the 13th wood type is loaded with 13)
- **To the next wood type:** The function key scrolls through the wood types.

### 9.5.5 Settings



- **Crosswise DM:** This allows you to define the number of diameter measurements for the log. The log clamp calculates the centre diameter from the individual diameter measurements.

- **Send after confirmation:** Confirms the log entry directly on the mobile device. If this check box is not selected, each log must be saved manually on the device.
- **Diameter rounding:** If this check box is selected, the diameters are always rounded down, even when measuring crosswise. (Example: 17.5 and 18.5 result in a measured diameter of 17: 17.5  $\rightarrow$  17; 18.5  $\rightarrow$  18 means  $(17+18) / 2 = 17.5 \rightarrow$  17)
- **DM measurement method:** If this check box is selected, the diameter from 0.25 to 0.75 is measured as 0.5, from 0.75 to 1.25 as 1. If the check box is not selected, the diameter is only updated when the threshold value is exceeded.
- **Backlight:** Specifies the duration of the display backlight in seconds. The default value is 50 seconds.
- **Switch off after inactivity:** Defines the duration in seconds until the Kluppe switches off when inactive. The default value is 300 seconds.

### 9.5.6 Language

|                    |
|--------------------|
| Allgemein          |
| Holzart            |
| Qualität           |
| Funktionstaste F1  |
| Funktionstaste F2  |
| Funktionstaste F3  |
| Funktionstaste F4  |
| Funktionstaste F5  |
| Funktionstaste F6  |
| Funktionstaste F7  |
| Funktionstaste F8  |
| Funktionstaste F9  |
| Funktionstaste F10 |
| Funktionstaste F11 |
| Einstellungen      |
| <b>Sprache</b>     |

|               |   |
|---------------|---|
| Holzart:      | <input style="width: 80%;" type="text" value="Ha"/> |
| Länge:        | <input style="width: 80%;" type="text" value="L"/>  |
| Güte:         | <input style="width: 80%;" type="text" value="Qu"/> |
| Durchmesser : | <input style="width: 80%;" type="text" value="Ø"/>  |

Under "Language", you can set the short texts for the headings in the Kluppe.

## 10 Bluetooth interface description for connection to other apps

The electronic measuring device (MKE) offers flexible connectivity and can be seamlessly connected to external applications and software products. This enables efficient data transfer and integration into existing workflows.

## 10.1 Data transfer via Bluetooth:

After the MKE has been successfully paired with an external device via Bluetooth, a defined data string is transmitted each time the measuring clamp is sent. This string contains the recorded measured values in a standardised format:

```
&lt;Wood
type&gt;;&lt;Quality&gt;;&lt;Length&gt;;&lt;Diameter&gt;;
```

## 10.2 Details on the data format:

- **Wood type:** Indicates the type of wood measured (e.g. "Spr" for spruce, "Fir" for fir).
- **Quality:** Indicates the quality of the wood (e.g. "A" or "B").
- **Length:** The measured length is specified with one decimal place.
- **Diameter:** The measured diameter is also given to one decimal place.

## 10.3 Examples of transferred data strings:

- Fi;A;6;14.5 (spruce; quality A; length 6.0; diameter 14.5)
- Fi;A;6;19.0 (Fir; Quality A; Length 6.0; Diameter 19.0)
- Fi;A;6.5;11.0 (spruce; quality A; length 6.5; diameter 11.0)
- Ta;B;6;19.0 (fir; quality B; length 6.0; diameter 19.0)
- Fi;B;6;23.0 (spruce; quality B; length 6.0; diameter 23.0)
- Ta;B;6;30.0 (Fir; Quality B; Length 6.0; Diameter 30.0)
- Ta;B;6;23.0 (Fir; Quality B; Length 6.0; Diameter 23.0)
- Ta;B;6;46.0 (Fir; Quality B; Length 6.0; Diameter 46.0)

**Note:** Each transmission action of the MKE transmits exactly one complete measurement.

## 11 Maintenance

Regular maintenance ensures the longevity and accuracy of your tuning fork.

- **Cleaning**
  - Wipe the tuning fork with a soft, dry cloth after each use to remove dirt, dust and moisture.
  - Stubborn dirt can be removed with a slightly damp cloth. Make sure that no liquids get into the electronics.

- Do not use solvents, alcohol or harsh cleaning agents.
- **Guide rail:** Keep the guide rail of the movable measuring arm clean and free of dirt. If necessary, a small amount of acid-free oil (e.g. precision oil) can be applied to maintain smooth movement. Remove any excess oil.
- **Storage:** Store the measuring clamp in a dry, clean place, protected from extreme temperatures, direct sunlight and dust. Use the transport bag supplied if possible.
- **Batteries:** Remove the batteries if you do not intend to use the measuring clamp for a long period of time to prevent leakage and possible damage to the electronics.

## 12 Troubleshooting

| Problem                     | Possible cause                                      | Solution  |
|-----------------------------|---|---|
| Display shows nothing       | Battery empty                                       | Fully charge the battery  |
| Measuring arm is stuck      | Dirt on the guide rail                              | Clean the guide rail and oil it lightly if necessary.   |
| No data transfer            | Bluetooth not paired or connected to the smartphone | Check the Bluetooth connection on your smartphone to see if the Kluppe is connected.  |
| Measurements are inaccurate | Display not reset to zero; contamination; damage    | Reset the display; clean the measuring clamp; if inaccuracy persists: contact service.  |
| Device cannot be reset      | Sensor dirty or defective                           | Clean the device thoroughly, especially in the area of the measuring arms. If the problem persists, contact customer service. |

If the above measures do not solve the problem, please contact Latschbacher customer service.



## 13 Technical

(This data is model-dependent and must be inserted here. Examples:)

- **Measuring range:** 0 – 80 cm
- **Charging connection:** USB-C
- **Resolution:** 1 mm
- **Accuracy:** +/- 1 mm
- **Power supply:** Built-in rechargeable battery,
- **Operating temperature:** -20°C to 60°C
- **Storage temperature:** -20°C to 60°C
- **Protection class:** IP65 - dust and splash protection
- **Interface:** Bluetooth
- **Material:** aluminium, plastic
- **Weight:** approx. 1.3 kg

## 14 Disposal

At the end of its service life, this product must not be disposed of with household waste. Please take it to a collection point for the recycling of electrical and electronic equipment. The batteries must be disposed of separately and taken to the appropriate battery collection points. Observe the local regulations for disposal.

## 15 Warranty and customer service

Latschbacher grants a warranty of [number] years from the date of purchase for material and manufacturing defects. The warranty does not cover damage caused by improper handling, accident, modification, misuse, maintenance by unauthorised personnel or normal wear and tear.

For warranty claims or technical support, please contact:

Latschbacher GmbH  
Hauptstraße 8-10  
4484 Kronstorf, Austria

Email: [office@winforstpro.com](mailto:office@winforstpro.com)

Website: [www.latschbacher.com](http://www.latschbacher.com)

When making enquiries, please have the serial number of your measuring clamp ready, which is engraved on the measuring legs.