LARCH
Luftfederwaagen

QUICK GUIDE

Air suspension scale

LFW-ESP-M5

Model: M5 display unit – for drivers and workshops

Document	BA-31102026-LFW-ESP-M5-KURZ-EN
Device	LFW-ESP-M5
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Note on the display language

The M5 display currently shows its texts in German. In this guide, the German screen texts are given as they appear on the display, followed by their English meaning in brackets.

1 General description

The LFW-ESP-M5 is a touchscreen display unit for the air suspension scale. It connects to the measuring unit via Wi-Fi and displays the weights of the truck and trailer.

This quick guide is intended for drivers and workshops. It briefly describes operation, connecting to the measuring unit and calibration.

This guide applies from software version 3.4.**.

Full details of operation can be found in the LFW-ESP-M5 operating manual.

Detailed operating manual

The detailed manual can be opened directly via the QR code: www.luftfederwaage.at/lfw-esp-m5.html

2 Operation

2.1 Switching on and off

Switching on

1. Press the button on the left side of the device **briefly**.
2. The start logo appears.
3. The main screen is displayed.

Switching off

Press the side button **briefly** again.

2.2 Touch bar

Below the display is the touch bar with the left arrow key, the round key in the middle and the right arrow key. The keys are operated by a long press.

Key	Long press
Left arrow key ‹ ‹	Show view “Truck” (section 2.3)
Middle ○	Show menu (section 2.5)
Right arrow key › ›	Show view “Truck and trailer” (section 2.4)

2.3 View “Truck”

Fig. 1 – View “Truck”

No.	Screen element	Meaning
1	Network	Name of the connected Wi-Fi network, e.g. LFW_0102
2	Signal strength truck	Signal strength to the measuring unit in the truck
3	ESP Serial Nr. *(serial no.)*	Serial number of the measuring unit
4	Battery	Battery charge level
5	LKW *(truck)*	Weight of the truck
6	Zuladung *(payload)*	Payload of the truck
7	Axle loads	Axle loads of the 1st to 5th axle
8	Left arrow key	Long press: view “Truck”
9	Middle key	Long press: menu
10	Right arrow key	Long press: view “Truck and trailer”

2.4 View “Truck and trailer”

Fig. 2 – View “Truck and trailer”

No.	Screen element	Meaning
1	Network	Name of the connected Wi-Fi network
2	Signal strength truck	Signal strength to the measuring unit in the truck
3	Signal strength trailer	Signal strength to the measuring unit in the trailer
4	ESP Serial Nr. *(serial no.)*	Serial number of the measuring unit
5	Battery	Battery charge level
6	Info	Further information on this page
7	LKW *(truck)*	Weight of the truck
8	Anh. *(trailer)*	Weight of the trailer. Long press: change trailer
9	Axle loads	Axle loads of truck and trailer
10	Gesamt *(total)*	Total weight of truck and trailer
11–13	Touch bar	Long press: change view or open menu (section 2.2)

2.5 Menu

The menu is opened by a long press on the round key in the middle of the touch bar. It contains the following items:

Menu item	Function
Verbinden *(connect)*	Connect to the measuring unit (section 3)
Parameter *(parameters)*	Change parameters of the weighing system, e.g. limit values
Terminal *(terminal)*	Display and sound settings, add a printer
Kalibrierung *(calibration)*	Calibration of the weighing system (section 4)
Info *(info)*	Memory visualisation and sensor output
Zeit/Datum *(time/date)*	Set time and date

> **Optional equipment: printer**
>
> A Bluetooth printer (BLE) can be connected as an option. The printer is added in the menu **„Terminal“** *(terminal)*.

2.6 Colour indications

- **Black figures:** The weight is within the permitted range.
- **Red figures:** A set limit value has been exceeded.

> **Note**
>
> The limit values can be set freely in the menu **„Parameter“** *(parameters)*.

3 Establishing a connection

1. Open the menu: long press the round key in the middle of the touch bar.
2. Select **„Verbinden“** *(connect)*.
3. Select the Wi-Fi network **LFW_XXXX**.
4. Enter the password (if one has been set).
5. The connection is active as soon as the network name is shown at the top left.

> **Network name and password**
>
> The network name **LFW_XXXX** is made up of the company ID (FID) and the trailer ID (AID) of the measuring unit, e.g. **LFW_0102** for FID 01 and AID 02.
>
> The password is the network key of the measuring unit. The M5 adds leading zeros automatically.
>
> Details can be found in the manual of the measuring unit.

4 Calibration (short version)

The calibration can be carried out by the user following this guide.

4.1 Requirements

> **Caution**
>
> The vehicle must stand level, free of tension and still.
>
> The system is not approved for legal-for-trade (verified) weighing!

4.2 Procedure

1. Open the menu and select **„Kalibrierung“** *(calibration)*.
2. Select the vehicle: **„LKW“** *(truck)* or **„Anhänger“** *(trailer)*.
3. Select the condition **„Leer“** *(empty)* or **„Beladen“** *(loaded)*.
4. Enter the reference weight (axle load).
5. Save the value with **„Speichern“** *(save)*.
6. Repeat steps 4 and 5 for each axle.

> **Note**
>
> Each value must be saved before you can move on to the next axle.

4.3 Calibration screen

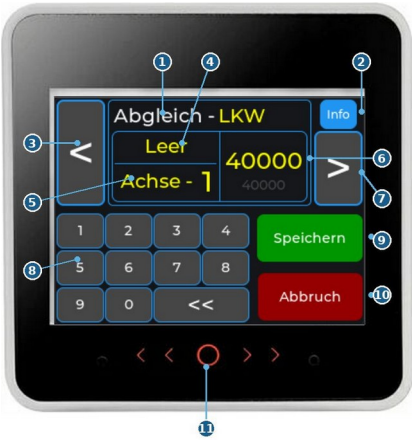

Fig. 3 – Calibration screen

No.	Screen element	Meaning
1	Abgleich – LKW *(calibration – truck)*	Calibration of the truck or the trailer
2	Info	Further information on this page
3	<	One axle back
4	Leer / Beladen *(empty / loaded)*	Calibration empty or loaded
5	Achse *(axle)*	Axle currently being calibrated
6	Input field	Enter the axle load; below it the total sensor value of the axle
7	>	Next axle
8	Numeric keypad	Entry of the axle load
9	Speichern *(save)*	Save the value (before each change of axle)
10	Abbruch *(cancel)*	Back to the main page
11	Middle key	Long press: menu

5 Technical data LFW-ESP-M5

Feature	Value
Software version	from 3.4.**
Operation	Touchscreen, touch bar (2 arrow keys, round key), button on the left side for on/off
Battery	1500 mAh
Connection	Wi-Fi to the measuring unit, network name LFW_<FID><AID>
Display language	German (English in preparation)
Optional equipment	Bluetooth printer (BLE), set up in the menu “Terminal”

6 Contact

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Detailed operating manual

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