

Quick Start Guide

WLAN THERMO



www.wlanthermo.com

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Hardware:

Front:



Ports:

Channels: 0 – 1 – 2 – 3
4 – 5 – 6 – 7

Back:



Ports:

Fan/Relay – Servo – Fan/Relay
Micro USB (5V-Input) – USB (WLAN-Stick)

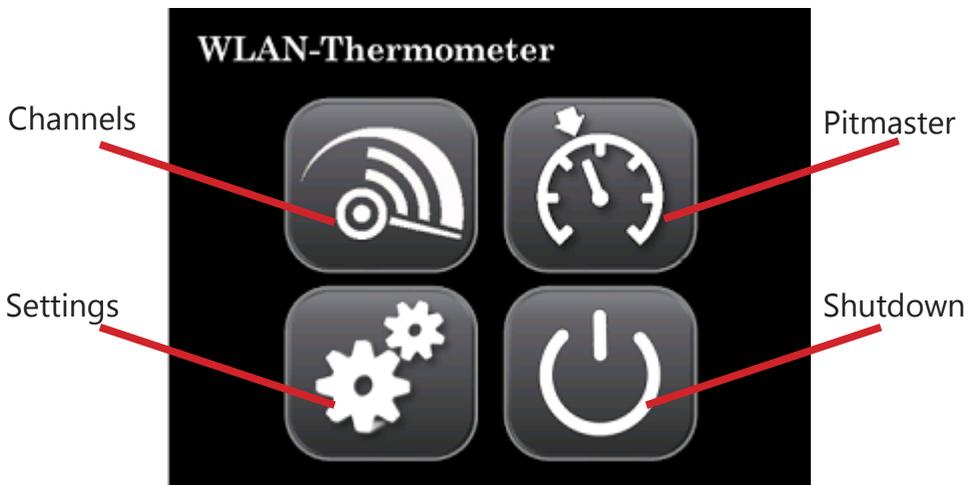
First Steps:

1. First Start:

Make sure that the WLAN-Stick is connected and connect the Power(5V/≥2A) to the WLANThermo Mini.



It will boot into the Home-Menu. There is a problem with the hardware if you do not see the Home-Menu after 10 sec.

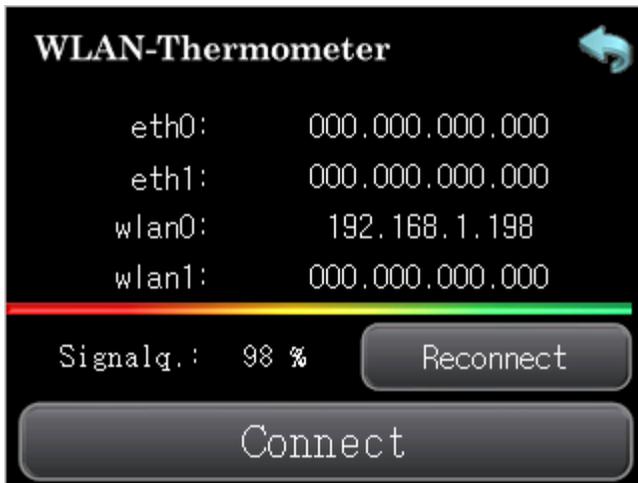


2. WLAN connection:

Press the *cogwheel symbol* » to get to the Settings



now the *WiFi symbol* »



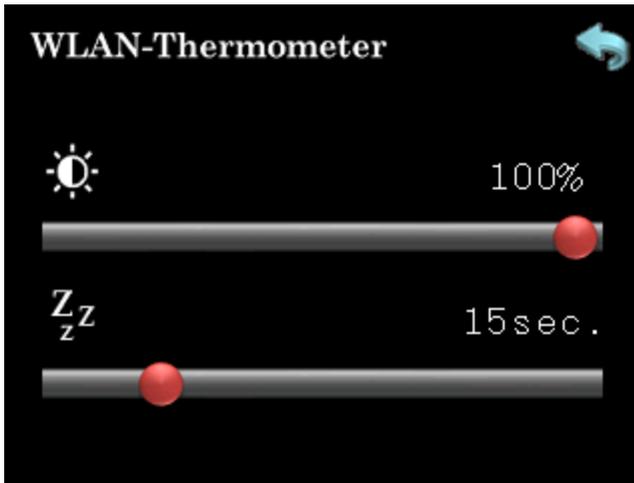
By pressing on *Connect* » it starts searching for available wifi networks. Select a network and key in the passphrase. If the connection is successful a IP-address will appear next to "wlan0". This IP is needed to reach the GUI with your browser – further information on page 15.

3. Display Menü:

That symbol will bring you back to the previous screen »



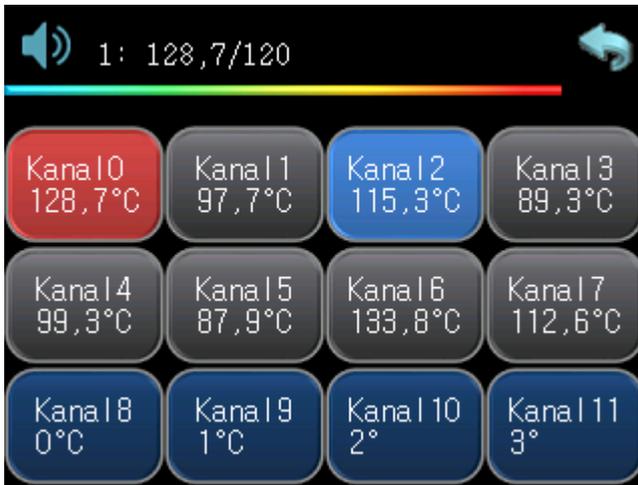
With the *cogwheel symbol* » *screen symbol* » you can change the brightness and the timespan when the display should switch in standby mode



ONLY the display is in standby!! The thermometer stays up and running. By pressing the display it will switch on instantly.

4. Channels:

To get to the Channel page press the *thermometer symbol* » now you see the 8 channels (numbered 0-7) and, if aktiv, the pitmaster. It shows the actual-/target temperature and the actuator's performance from 0%-100%



If an alarm is set off a *speaker symbol* » appears in the left upper corner and there is a acoustic signal – the channel turns **red** if the set temperature is exceeded and **blue** if it falls below.

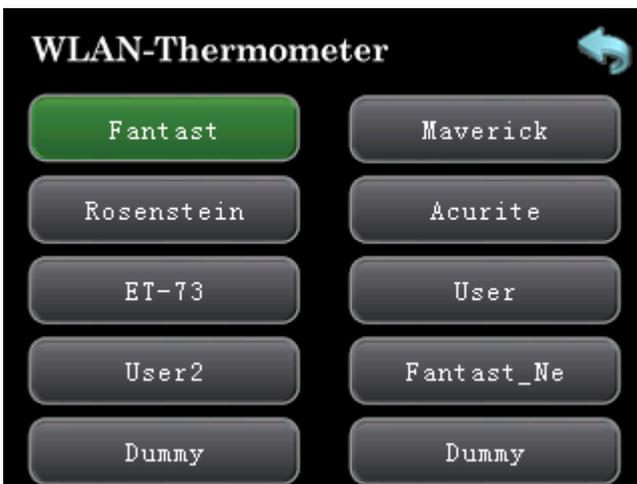
To cancel the acoustic signal just press on the *speaker symbol* » it will appear struck through. In case of another alarm there will be again a acoustic signal. The alarm will activate it self if all channels are in the set temperature range again.

By pressing on a *Channal* » it is possible to set the min/max temperature of the channel and select the type of probe you are using. The *meat symbol* » allows you to select a variety of temperatures for different meats.



Using the *jack symbol* » you can select the probe you are using. Without a changing the resistors in the hardware only the listed probes can be used.

Tip: the original Maverick probe has a too long jack so it must not be plugged all the way in. That would create a short and a nonsens temperature reading.

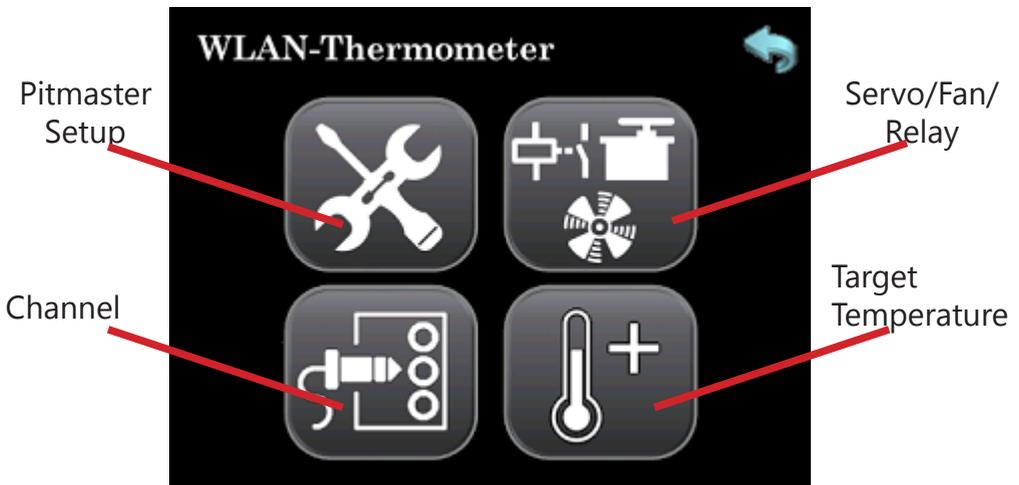


5. Pitmaster:

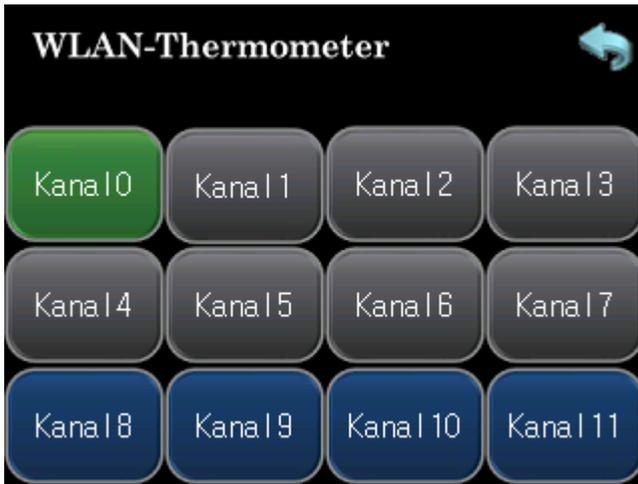
With the Pitmaster it is possible to control the temperature of a grill or BBQ smokers using a fan or servo motor. Using an electrical heat source, SSR (Solid State Relay) and a standard catering tray a DIY Sous-Vide bath can be built.

Further information at: www.wlanthermo.com

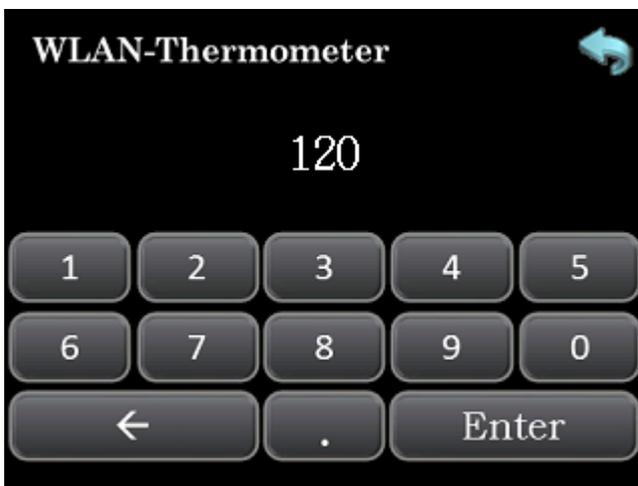
To set up the pitmaster press on the *cruise control icon* »



The *jack symbol* » let you select the channel which should be used as the reference measurement for the temperatur control. Just press on the channel you want do select.



With the *thermometer symbol* » the target temperature can be set. Validate your entry with *Enter* »



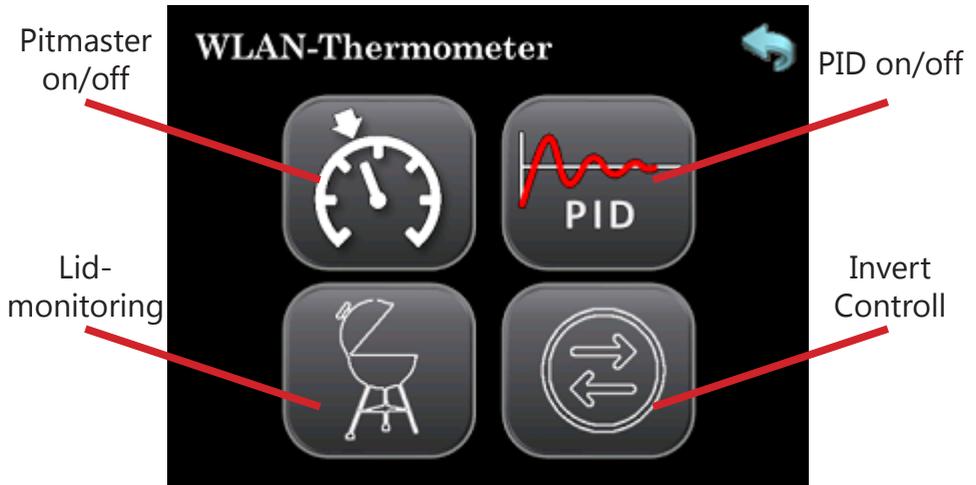
To select the device used to control your grill press on the *symbol* » with the fan/SSR/servo motor. It appears green if activated.

You can choose the following:

Servomotor - Fan - PWM Fan
Relay - SSR (Solid State Relay)



More information with devices you can use and how to use them:
www.wlanthermo.com



- *Pitmaster on/off*: activates/deactivates the pitmasters.
- *PID on/off*: switches between closed-loop control and control curve
- *Lid-monitoring*: the thermometer detects when the lid is open and stops the pitmaster as long as the lid is not closed again.
- *Invert Control*: changes the direction of a servo motor, if a fan is connected it will stand still at 100% and runs at full speed at 0% and if using a relay the NO or NC can be switched.

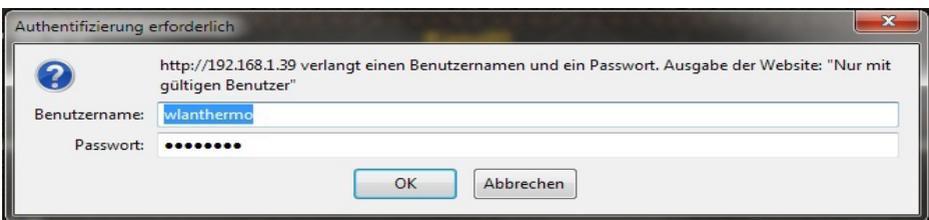
GUI (graphical user interface):

That is the homescreen:



All active channels are listed here

To change the settings you have to log in:



The user is always „wlanthermo“, the password is the one chosen while installing the software. The default password is „raspberry“.

This is the main menu



It contains:

NEUES LOGFILE ERSTELLEN

Saves the current Logfile, creates a new one and starts the plot. The plot-grafik will only be saved if it is activated as a new Logfile is created.



activates/deactivates the plot-grafik.



opens a page with the saved Logfiles, you can download them from this page



opens the settings



opens the WiFi settings



opens a page with general information about the WLANThermo. Updates can be installed here when available.



Both symbols will bring you back to the homescreen

With that symbol you can shutdown and reboot the system. It is recommended to safely shutdown the WLANThermo instead of just cutting the power!



"*Speichern*" saves the changes and you go back to the homescreen. "*Zurück*" brings you back to the homescreen without saving.

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