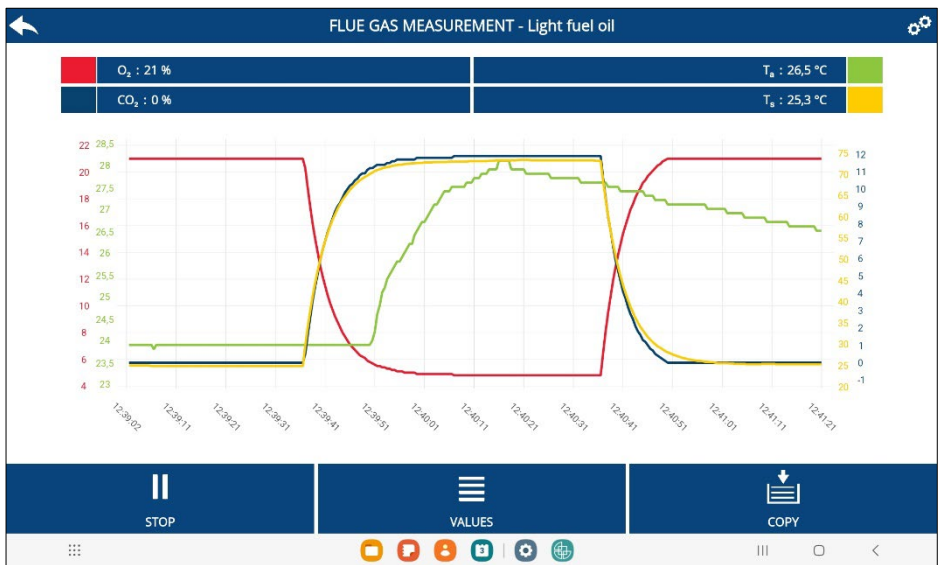


Operation Manual Flue Gas Analysis App

App for mobile end devices for displaying, saving and sending the measured values of a Wöhler Flue Gas Analyzer.



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1 Application

The Wöhler Flue Gas Analysis App displays the measurement data of the Wöhler flue gas analysers A 450 or A 550 numerically and graphically on the display of a mobile device and saves the measurement results on the device.

2 System requirements mobile device

A WLAN enabled mobile device with the following operating system is required:

- Android 8.0 or newer
- iOS 10.0 or newer

3 App installation



Fig. 1: Icon Flue Gas Analysis App

- Download the Flue Gas Analysis App to your mobile device. You can use the Google Play Store (Android) or the App Store (iOS).

The app is free of charge.

- Start the app by pressing the icon.

4 Connecting

4.1 Settings for establishing a connection to the Analyzer

4.1.1 WLAN mode



Fig. 2: WLAN configuration on the Wöhler Analyzer

- Choose main menu > setup > WLAN configuration

Select between 3 wifi modes:

OFF, direct connection and router connection

4.1.1.1 Mode Off

The Wöhler ANALYZER APP cannot be used.

4.1.1.2 Mode direct connection

If no stationary WLAN network is available, select the **direct connection**. The Wöhler Analyzer then sets up its own WLAN network. Now use a WLAN enable mobile device (laptop, tablet or smartphone) to connect with the network of the ANALYZER.

Network name

The name of the network, set up by the Wöhler Analyzer, is displayed in settings while connecting to the mobile device.

The network name is composed as follows: Wöhler ANALYZER/serial number.

Network key

This is the password that must be entered in your terminal when establishing the connection.

The preset password is: **12345678**.

- Select the button **network key**, if you want to change the password.
- Choose a new password with min. 8 and max. 24 characters.
- Confirm with **OK**.

**NOTE!**

*Before connecting with your mobile device, confirm the setup settings with **OK**.*

WLAN channel

Selection of the channel on which the Analyzer transmits.

**NOTE!**

Usually you do not need to change this setting.

**4.1.1.3 Mode
Router connection**

- Select the mode **router connection**, if no stationary WLAN network for data transfer is available.
- Select the button **network name** and enter the exact name of the router.
- Select the button **network key** and enter the exact name of the router.

The Wöhler Analyzer sets up connection to the router.

Encoding

This is the protection encoding of your router. It is possible to switch off the encoding (Encoding > None). In this case, anyone can dial into the network. For this reason, we recommend not changing the encoding settings.

4.2 Settings for establishing a connection on the mobile device

The WLAN connection must now be established in the settings of your mobile device. Depending on the operating system and version of your device, the procedure may differ from this description.

Connecting

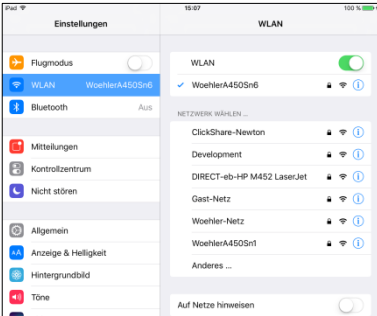


Fig. 3: Example iPad: Choose the Analyzer router as stationary WLAN router.

- Choose settings > WLAN configuration
- The mobile device searches for WLAN networks.
- Select the network you want to use.
(Direct connection: WöhlerAxxxSnx
Router connection: name of the router)
- The first time you connect, you will be asked to enter a password.
- When using the direct connection the password is: **12345678**, if you have not changed it as described in the previous chapter.
- In case of a router connection, enter the password of your router.

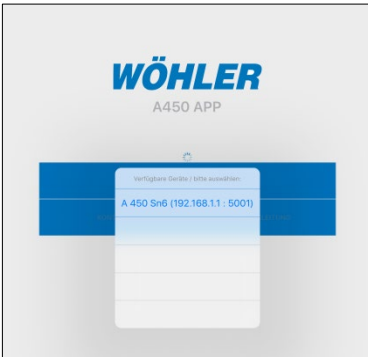
Your mobile device is now connected with the analyzer and the app can be used.

5 Working with the app

5.1 Starting the App



- Open the Flue Gas Analysis APP.
- Press "Connect device".



The app displays all available devices in the surrounding area:

ANALYZER serial number (IP address: Port).

- Select the device you want the app to connect to.

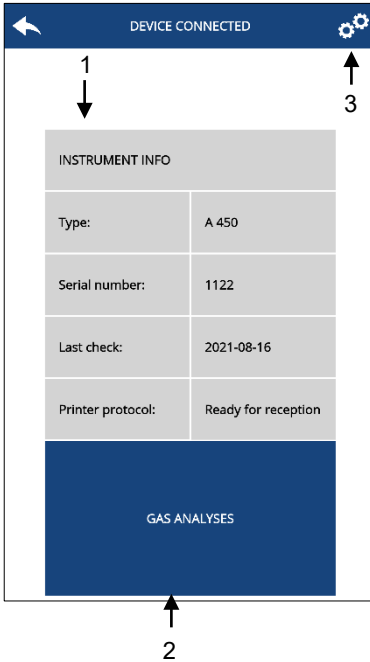
The app now connects to the ANALYZER so that all settings are available.



NOTE!

If the connection fails, go to settings > WLAN configuration and proceed as described in chapter 4.2. Usually the app opens the settings of the mobile device automatically after the first connection attempt.

After a successful device connection, the following functions are available:



	Function
1	Information on the connected Wöhler Analyzer.
2	Measurement data are displayed numerically and graphically in the app and can be saved
3	App settings, cf.6.

Fig. 4: View after connecting the app to the analyzer

6 Settings

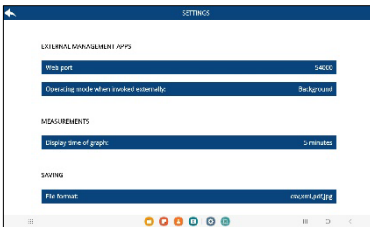


Fig. 5: Software settings

6.1 Measurements

Display time of graph

- Press on the gear symbol in the top right-hand corner to access the settings.



NOTE!

All settings are saved and remain even after closing and opening the app.

Setting, which measuring period the graph should represent:

1 minute, 5 minutes, 10 minutes, 15 minutes

6.2 Saving

File format

Setting for the file format in which the measurement data is to be saved: Log (CSV Excel), PDF, Screenshot (jpg), ZIV (XML)

6.3 PDF Export

Header lines for PDF files:

Technician (printer Protocol):

- Enter your company data if required
- Enter the name of the technician if required.

Copy

The button COPY allows you to save up to ten intermediate results of a measurement. All copied intermediate results then appear in the saved measurement file with the complete measurement protocol, so that the effects of any burner settings made can be clearly understood.

Please choose shelf	
Shelf1 <input checked="" type="checkbox"/>	Shelf2 <input type="checkbox"/>
Shelf3 <input type="checkbox"/>	Shelf4 <input type="checkbox"/>
Shelf5 <input type="checkbox"/>	Shelf6 <input type="checkbox"/>
Shelf7 <input type="checkbox"/>	Shelf8 <input type="checkbox"/>
Shelf9 <input type="checkbox"/>	Shelf10 <input type="checkbox"/>
CANCEL	OK

Fig. 7: Save intermediate results

- To save intermediate results press on the COPY icon:

A window opens in which you are shown 10 shelves as a storage.

- Choose a shelf and press on OK.

The measurement view is now displayed on the screen again.