

These instructions explain how you can access your PQ-Box remotely - with the help of the TOSIBOX® Lock and the TOSIBOX® Key. In addition to the required accessories, it also shows the configuration of all components.

Content

1	Basic setup - scheme	1
2	Required accessories	2
3	Set up the PQ-Box.....	3
3.1	LAN connection	3
3.1.1	Via PQ-Box display and push buttons	3
3.1.2	Via WinPQ mobil.....	3
3.2	WLAN (Wi-Fi) connection.....	3
4	Set up the TOSIBOX.....	4
4.1	Connection between TOSIBOX Lock and PC.....	4
4.2	Activate the LTE connection	4
4.3	Create Remote Matching Key.....	4
5	Get started.....	5
5.1	Starting the TOSIBOX Software	5
5.2	Remote Matching.....	5
5.3	WinPQ mobil	5

1 Basic setup- scheme



1) PQ-Box

2) Ethernet cable

3) TOSIBOX Lock

4) SIM card

5) PC / Notebook

6) TOSIBOX Key

2 Required accessories



TOSIBOX® Lock (111.9030.80)



TOSIBOX® Key (111.9030.70)



SIM card with sufficient data volume (to be obtained from local cellphone provider)



Ethernet cable (Included with the PQ-Box)



Optional: Antenna adapter 4G (111.9030.64) for stable connection



Optional: Outdoor antenna with 8 m cable (111.9030.59)

3 Set up the PQ-Box

The PQ-Box can be connected via LAN or WLAN(Wi-Fi). Depending on the desired connection, please follow the points below:

3.1 LAN connection

LAN connection can be configured via the PQ-Box itself (chapter 3.1.1) or the WinPQ mobil software (chapter 3.1.2).

3.1.1 Via PQ-Box display and push buttons

1. Please go to *Setup > Network* and change the network mode to 'LAN' (PQ-Box restart is required if this setting was changed)
2. The PQ-Box has the following network parameters as factory settings:

IP address: 172.168.2.4

Subnet mask: 255.255.255.0

Gateway: 172.168.2.1 (corresponds to the IP address of the TOSIBOX)



Attention: With the set parameters above the PQ-Box can automatically establish a connection to the TOSIBOX. Please only change these if you are connecting several PQ-Boxes to the TOSIBOX at the same time. To do this, it is sufficient to assign different IP addresses 172.168.2.[4...255].

3.1.2 Via WinPQ mobil

Open WinPQ mobile and connect your PQ-Box to the PC (e.g. with the USB cable). Navigate to *Measurement device configuration > Network configuration* and make the following settings:

1. Network mode: LAN
2. IP address and subnet mask as in chapter 3.1.1

3.2 WLAN (Wi-Fi) connection

Open WinPQ mobil and connect your PQ-Box to the PC (e.g. with the USB cable). Navigate to *Measurement device configuration > Network configuration* and make the following settings:

1. Network mode: Wi-Fi – client
2. Select the Wi-Fi SSID of the TOSIBOX Lock (Wi-Fi needs to be configured and activated in TOSIBOX Lock, for login please see chapter **Fehler! Verweisquelle konnte nicht gefunden werden.**)
3. IP address and subnet mask as in chapter 3.1.1

4 Set up the TOSIBOX

4.1 Connection between TOSIBOX Lock and PC

1. Plug in the AC adapter to the TOSIBOX Lock and wait for approx. 2 min
2. Configure the network interface of your PC so that it can find the IP address mentioned in step 4
3. Connect the PC via ethernet cable with the LAN port of the TOSIBOX Lock
4. Access the webserver of the TOSIBOX Lock at <http://172.168.2.1> via the browser (e.g. Firefox, Chrome, Edge,...) of the PC
5. Click on 'Login' at the top right corner and enter the following login details:

Username: admin

Password: please see the bottom of the TOSIBOX Lock

4.2 Activate the LTE connection

1. Navigate to NETWORK > Internal Modem on the webserver
2. Under the section SIM select 'Automatic (3G/4G)' and enter the PIN code for the SIM card below. Confirm with 'Save'



Click on STATUS in the menu and check whether the Internet connection is OK at the top left. If it is not OK, use the advanced settings for the SIM card by unchecking 'APN autoconfiguration' below the field for the SIM card PIN. Please enter the data provided by your SIM card provider here.

4.3 Create Remote Matching Key

1. Navigate to SETTINGS > 'Keys and Locks' on the webserver
2. click on 'Generate' in the lower 'Remote matching' area. Make a note of the remote matching code and / or copy it to the clipboard

5 Get started



Your PC must have a stable internet connection for remote access to be possible. Please ensure this. If you are already using a VPN connection, an external firewall may block the connection. Please contact your IT department or system administrator.

5.1 Starting the TOSIBOX Software

1. Insert the TOSIBOX® Key into the notebook
2. Start the file *Setup_Tosibox.exe* from the recognized USB data storage device 'TOSIBOX Key'
3. Start the software after successful installation

5.2 Remote Matching

1. Navigate to Devices > Remote Matching
2. Enter the Remote Matching Key in the free field (see chapter 4.3step 2) and click on 'Start'
3. The previously configured TOSIBOX Lock appears in the list. Click on 'Connect' to connect to the TOSIBOX Lock

5.3 WinPQ mobil

1. Open WinPQ mobil and navigate to Setup > *Connection Manager*
2. Click + and add the PQ-Box with the following connection details:

Host:	IP address of the PQ-Box (see chapter 3, default: 172.168.2.4)
Port:	5001
Description:	Name for the PQ-Box connection (optional)
3. Click 'Connect'. After successfully connecting to the PQ-Box the connection status shows the PQ-Box information and status.
4. You are now connected to the PQ-Box and can use WinPQ mobil to configure the PQ-Box, read measurement data or view online data.