



Installation Guide for Modbus TCP/IP for LK Arc

Introduction

This guide describes how to install and configure Modbus TCP/IP for LK Arc.

Prerequisites

- Support for DHCP assignment and DHCP IP reservation in the router.
Note: LK Arc does not support static IP addressing.
- Ethernet via RJ-45 connector or 2.4 GHz Wi-Fi. **LK recommends a wired connection.**
- ArcHub must have firmware version 48/36 or later.
- The installer must be an active MyLK user, and the account must be of the "installer account" type.
 - Contact LK at aftermarknad@lksystems.se, and provide the installer's email address if the account is not already an installer account.
- The basic installation is carried out via the standard installation flow using the MyLK app.

Read more: <https://www.lksystems.se/sv/support/komplett-guide-till-lk-arc/>

Step 1: Find Your IP Address

Option 1

1. Connect your ArcHub to the network via network cable or Wi-Fi.
2. Open your router's administration page in a web browser. This is usually done by entering the router's IP address in the address bar (e.g., 192.168.1.1).
3. Log in with your router credentials.
4. Navigate to the section for connected devices or DHCP client list.
5. Locate your ArcHub in the list; it appears as lkssystemsgw-XXXXXX. Make note of its IP address.



Option 2

1. Open the MyLK app.
2. Select the LK Arc function.
3. Tap the "Modbus" icon and follow the instructions in the app.

Step 2: Reserve the IP Address in the Router

1. In the router's administration page, go to the DHCP settings section.
2. Locate the option to reserve IP addresses (also known as Static DHCP or IP Reservation).
3. Enter the MAC address of the ArcHub and the IP address you wish to reserve.
4. Save the changes and restart the router if necessary.

Step 3: Activate Modbus

1. Open the MyLK app.
2. Select the LK Arc function.
3. Activate Modbus by tapping the "Modbus" icon and follow the instructions in the app.

Step 4: Document the Zone:ID

1. Open the MyLK app.
2. Select the Installer Tools function.
3. Tap the "Modbus" icon and then select "Zone Overview", then follow the instructions in the app.
The list includes ZoneID, which is used to read from and write to each specific zone. It also includes each zone's *friendly name* and the actuators controlled by the zone's thermostat.



Step 5: Configure Modbus TCP/IP

1. Open your Modbus client and connect to the ArchHub's IP address.
2. Use the commands in the Excel document "**LK Arc ModBus Registers**" to configure and utilize LK Arc's Modbus communication.

Common Issues and Solutions

- **Issue:** The IP address changes when ArchHub restarts.
Solution: Ensure the IP address is reserved in the router as described in Step 2.
- **Issue:** No communication with ArchHub.
Solution: Verify that the correct IP address is used and that the network connection is stable.