

DR5000

Firmware from **V1.5.1** (2019-02-18)

quick guide

Change LAN/WLAN settings



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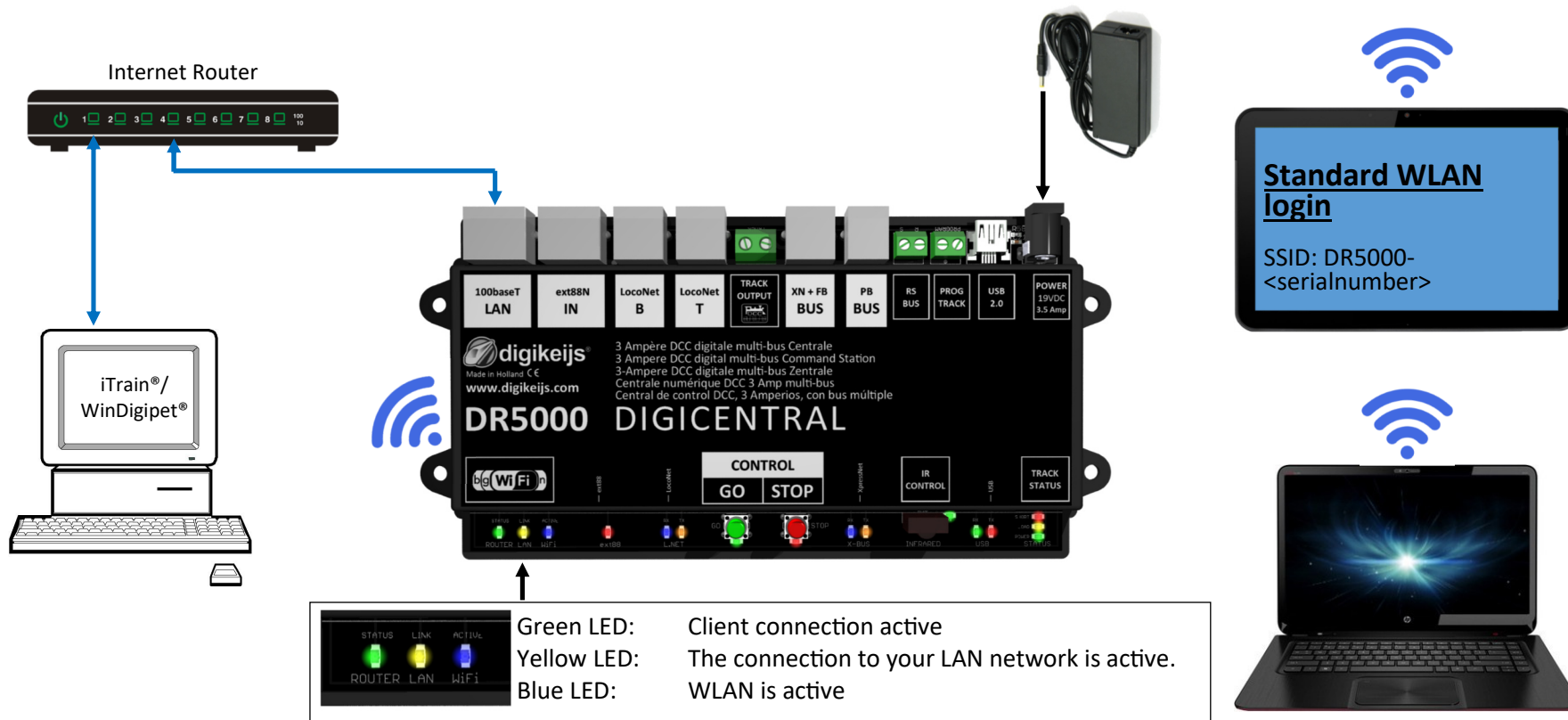
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Overview of how the DR5000 can work in a network.

The DR5000 central unit is equipped with a built-in network router as standard. This means that the central unit can be accessed via either a LAN or a WLAN network. This allows control programs, such as iTrain® or Windigipet® (and others with network support), to communicate with the control centre via the DR5000's own network without using the USB cable and only via the Lan interface. Starting the internal router takes about 30 seconds. Once the central unit is connected to your network, your router assigns an IP address to the DR5000.

It is not possible to connect the DR5000 to your network via the internal WLAN module of the DR5000. The WLAN connection of the DR5000 is only intended for connections with smartphones, tablets, PCs or laptops.



What can I set under LAN everything?

You can adjust the LAN settings using the configuration software. (Normally, the DR5000 recognizes the IP address automatically. This requires the DR5000 to be connected to the home network.) If the DR5000 does not recognize its IP address, it must be searched for in the network router and then entered in point 1) below. If you do not have sufficient knowledge of network technology, the default settings should not be changed. **Incorrect entries can result in the internal router no longer being accessible and having to be reset.**

- 1) **IP address** of the DR5000
- 2) **DR5000 Protocol:** This setting is used to select which protocol is made available via LAN or WLAN. The protocol is then routed to WLAN and LAN. If, for example, LocoNet® Binary has been selected as the protocol and a control program is connected to the DR5000 via LAN, the program can only access the DR5000 via this protocol.

Possible protocol settings:

XpressNet® LAN:

Protocol to connect an external application to the DR5000 via XpressNet® LAN.

LocoNet® over TCP/IP LServer:

Protocol to connect an external application (such as JMRI) to the DR5000 via LocoNet® TCP / IP.

LocoNet® Binary:

Protocol to connect an external application (recommended for iTrain®/Windigipet® etc.) to the DR5000 via LocoNet® Binary.

Dr. Command:

Protocol to connect to Digikeijs applications.

Z21®/WLANmaus®:

Protocol to connect one or more Roco® WLAN Mice® or App's to the DR5000.

This protocol **cannot be used** to connect to control software when using Z21App® and/or Roco® WLAN mice at **the same time**.

Important! This UDP protocol (without end-to-end control) is not optimally suited as a connection to a control software because data losses can occur between the DR5000 and the software!

- 3) **LAN Addresses:** It is recommended to leave the connection type at DHCP. Settings should only be made by experienced users.
- 4) **LAN Operating mode:** It is recommended to leave the connection type at DHCP. Settings should only be made by experienced users.



If the DR5000 is **not** connected via the Lan interface to the **home network** (router) or via **Wlan** to the PC or laptop, the Lan settings of the DR5000 are **grayed out and not accessible** and therefore **cannot** be changed! A connection via **USB** to the DR5000 is **always required to change** the Lan setting!

Please pay attention!

What can I set under WLAN everything?

You can adjust the WLAN settings via the configuration software. (Normally, the DR5000 automatically detects the IP address.)

If the DR5000 does not recognize your IP address, it must be searched in the network router and then entered below.

If you do not have sufficient knowledge of network technology, the default settings should not be changed. Incorrect changes may cause the internal router to malfunction.

- 1) **IP address** of the DR5000
- 2) **Name (SSID)** of the WLAN network that generates the DR5000.
- 3) **Password** of the WLAN network of the DR5000
(password in delivery state 12345678)
- 4) **IP address** of the DR5000 WLAN
- 5) **DHCP Server** the DR5000
No changes should be made here. These settings are important to connect e.g. the Roco WLAN mouse, mobile phones and tablets.
This window displays all devices (smartphones, tablets, wireless handsets, etc.) connected to the DR5000.
The steps required to connect a WLAN handset controller, for example, can be found in the respective manufacturer's instructions.
- 6) **Reset** network setting



If the DR5000 is **not** connected via the Lan interface to the **home network** (router) or via **Wlan** to the PC or laptop, the Lan settings of the DR5000 are **grayed out and not accessible** and therefore **cannot** be changed! A connection via **USB** to the DR5000 is **always required to change** the Lan setting!

Please pay attention!

How can I set the network protocol (Z21, XpressNet, etc.)?

This short manual does not replace the complete DR5000 manual, but only complements the existing documentation.

The DR5000 can communicate with various protocols via the LAN/WLAN interface. There are two different setup options for making these settings. A connection to the PC or laptop via **USB** is **always required**.

Option 1:

Change the network protocol if there is a connection to the home network via a router:

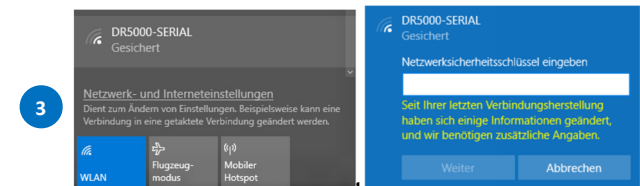
1. Establish **USB** connection with DR5000! 1
2. **LAN** interface of the DR5000 to the home network (router).
The home network router assigns an IP address to the DR5000. This process normally takes about 30 seconds.
3. Open the DR5000 **Tool**. (Connection type DR5000 Tool must be set to USB)
4. Open **LAN** settings in DR5000 Tool. 2
5. Select the required protocol.
6. Confirm the selection with the **green** tick.
7. It takes approx. 60 seconds until the LAN/WLAN module of the DR5000 is restarted.
8. The DR5000 can now communicate using the selected protocol.



Option 2

Change the network protocol **via WLAN**:

1. Establish **USB** connection with DR5000!
2. Now the PC must be **connected** to the WLAN of the DR5000.
After you have found the DR5000's WLAN network in the **Windows network dialog** click and enter the WLAN password. **(Factory setting 12345678)** 3
3. The connection will now be established. This process normally takes about 30 seconds..
4. Open the DR5000 **Tool**. (Connection type DR5000 Tool must be set to USB) 1
5. Open **LAN** settings in DR5000 Tool. 2
6. Select the required protocol
7. Confirm the selection with the **green** tick.
8. It takes approx. 60 seconds until the LAN/WLAN module of the DR5000 is restarted.
9. The DR5000 can now communicate using the selected protocol.



If the DR5000 is **not** connected via the Lan interface to the **home network** (router) or via **Wlan** to the PC or laptop, the Lan settings of the DR5000 **are grayed out and not accessible** and therefore **cannot** be changed! A connection via **USB** to the DR5000 is **always required to change** the Lan setting!
Please pay attention!