



Information LAN/USB Interface

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Important advice, please read first!

The Interface 23151 is a component of the *Digital plus by Lenz*® system and was submitted to intensive testing before delivery. Lenz Elektronik GmbH guarantees fault-free operation if you follow the advice below:

The Interface 23151 may be used only with *Digital plus by Lenz*® components. Any use other than the one described in this operating manual is not permitted and all guarantees shall become null and void if the Interface 23151 is used inappropriately.

Connect your Interface 23151 only to devices which are designed for this purpose. This operating manual will inform you which devices are suitable. You must not operate the Interface 23151 with any other devices (including those of other manufacturers) even if they use the same connectors. *The fact that the connectors are similar does not automatically mean that you may use them for operation*, even if you are dealing with devices for model railway control.

Do not expose the Interface 23151 to damp or direct sunlight.

Please contact us if you have any questions which this operating manual does not answer:

Postal address: Lenz Elektronik GmbH
Vogelsang 14
D-35398 Gießen

Phone: +49 (0) 6403 900 133 The recorded message will
inform you of times when we
are available.

Fax: +49 (0) 6403 900 155

E-mail: info@digital-plus.de

If you experience any problems with the Interface 23151, please contact us, providing the following information:

- The devices you are using (LZV200, LZV100, LZ100)
- The version number of these devices and your Interface 23151.

Control elements and displays

Luminous diodes

Three luminous diodes indicate the operational status of the Interface:

XpressNet (red): Initialisation complete, device in operation, XpressNet connected.

Data (yellow): Flashes during data transmission on the XpressNet to or from the Interface.

USB (green): USB connection established.

"Reset" button

If this button is pressed and held before start-up (operating voltage fed to XpressNet connection), all parameters of the device will be reset to factory settings:

- The factory firmware will be loaded and all updates deleted.
- The XpressNet address is set to 22.
- The device is set to the fixed IP address 192.168.0.200.

During operation the button is used for toggling between the fixed IP and the DHCP mode. More information in chapter "IP addressing"

XpressNet connection / power supply

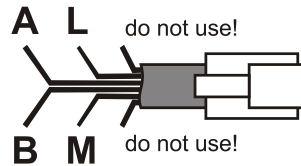
The Interface is supplied via the XpressNet connection. To make the connection, connect the "XpressNet" socket to the command station LZ100/LZV100/LZV200.

Use cable 1 included in the package to connect the XpressNet.

Plug one end into the "XpressNet" socket of the Interface 23151 and connect the other end to an adapter LA152.



If you want to connect the Interface 23151 to the terminal screws LMAB of a LZ100/LZV100/LZV200 command station, simply cut the cable in the middle and connect the cable wires to the corresponding terminal screws. The pin assignment is shown in the illustration on the right.

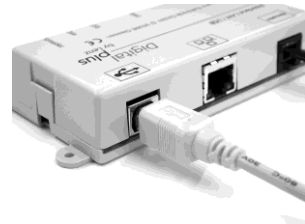


The factory setting of the Interface's XpressNet address is 22. This setting can be changed through the Web Interface (see Section "Web Interface") in the framework of the XpressNet specification.

USB connection

The USB connection can be used in parallel to the LAN connection. The driver can be found in the directory "USB Driver". When connecting the Interface to the USB port of the PC, Windows will ask for the location of the driver. Indicate the directory.

Use the cable included in the package to connect the Interface to the USB interface.



We recommend that you use the applications delivered with the Interface for the initial operation since this allows you to verify that the connection to the XpressNet is correct and that the device functions properly.

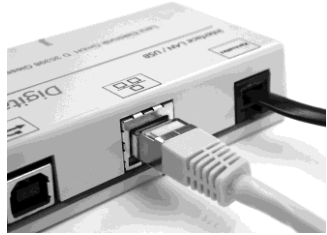
Information on installing and using the software can be found below from section "The supplied software on Page 11 onwards.

Ethernet (LAN) connection

The Interface is equipped with an Ethernet connection for use in a network. This allows for up to eight simultaneous connections with other network devices.

You need a commercial Ethernet cable to use the LAN interface.

Which cable you use depends on whether you want to connect the Interface directly to a PC or to a router.



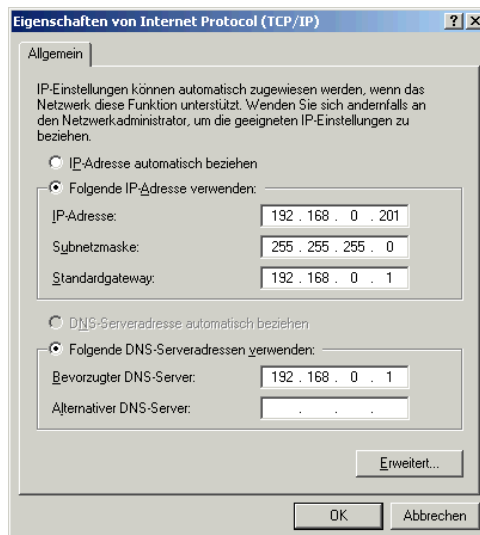
Connection to a router

The connection is usually made via a router. If a WLAN router is used, the Interface can be called via mobile WLAN devices. You can use, for example, the software "TouchCab" (<http://www.touchcab.com/>).

Connect the LAN interface of the Interface 23151 with a free LAN interface of the router.

Direct connection to a PC

A direct connection to a PC is possible with a Xover LAN cable. In this case, the PC must be set to an IP address in the range of the Interface, for example 192.168.0.201.



IP addressing

The factory setting of the Interface's IP address is **192.168.0.200**.

The subnet mask is 255.255.255.0, the used TCP port is 5550.

You may have to set your router to this address range in order to be able to access the Interface.

You can change the IP as well as the subnet mask from the web-interface.

Using DHCP

Two methods are available to setup the interface for DHCP:

1. Using the Web-Interface, see chapter "Web Interface".
2. Manually setting with the help of the button.

Switching to DHCP manually (the device must be running):

- red LED must be on
- double cklick the button
- LED "Data" (yellow) will be light shortly

The device will reboot and start operation again in DHCP mode. Thus it cannot be reached under the address 192.168.0.200 anymore.

Switching to fixed IP manually (the device must be running):

- red LED must be on
- double cklick the button
- LED "USB" (green) will be light shortly

The device will reboot and start again with the fixed IP 192.168.0.200.

Web Interface

Since the Interface does not have a display, a web server was integrated in the device. The web server facilitates the displaying and changing of the IP configuration (DHCP, IP, subnet mask) and the XpressNet address.

The web server also facilitates the uploading of new firmware in the device.

The device can be found in the network as follows:

Windows:

Enter in the address bar of the browser (Internet Explorer, Firefox etc.):

`http://xpressnet`

Tests with different routers have shown that calling up "http://xpressnet" does not always work. In this case, enter the Interface's IP address in the address bar of the browser:

`http://192.168.0.200`

If you have the device set to DHCP, you need to find the IP via the web interface of your router, which IP was assigned to the device.

MacOS X:

Use "Collections" in Safari and click "Bonjour". The Interface will be displayed under "Web pages". Click "Lenz XpressNet Interface".



XpressNet Interface 23151

XpressNet Version: 3.6

Softwareversion: 1.0

Versionsdatum: May 31 2011 23:40:45

XpressNet Adresse ändern:

XpressNet Adresse:	<input type="text" value="22"/>	<input type="button" value="Speichern"/>
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Netzwerkeinstellungen ändern:

WARNUNG: Falsche Einstellungen können zu Verlust der Netzwerkverbindung führen		
DHCP verwenden:	<input type="checkbox"/> (automatischer IP Konfiguration)	
IP Adresse:	<input type="text" value="192.168.0.200"/>	
Subnetz Maske:	<input type="text" value="255.255.255.0"/>	
Gateway:	<input type="text" value="192.168.0.1"/>	
Gerätename:	<input type="text" value="XPRESSNET"/>	<input type="button" value="Speichern"/>
MAC Adresse:	00:04:A3:17:32:41	

Neue Software installieren:

WARNUNG: Während der Software-Installation wird die Verbindung zum XpressNet unterbrochen	
<input type="text"/>	<input type="button" value="Durchsuchen..."/>
<input type="button" value="Installation"/>	

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The Web-Interface

Setting the XpressNet address

The Interface has an XpressNet (XBUS) address, just like any other Digital plus input device. This address is used by the command station to call up the Interface. The factory setting of the Interface's address is 22.

If you would like to change the Interface's address, click the field that shows the current address. You can change the value via the keyboard. Please note that you may only enter values between 1 and 31. Moreover, you may not use an address which is already being used by another XpressNet device.

When you have set the value, click "Save".

The new setting of the XpressNet address will be saved in the device. The set XpressNet address will remain unchanged even after the device has been turned off. However, it can be changed again at any time.

The supplied software "CV-Editor"

The application software "CV-Editor" can be found in the file "23151_info.zip", which you can download from our website:

https://www.Lenz-elektronik.de/pdf/23151_info.zip

in the "Software" folder.

Please read the document stored in the same folder carefully before installation and use.

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