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Installation instructions

Interface adapter with cable for Ethernet

KERN KUP-04

Type TYKUP-04-A
Version 1.3
2025-01
GB



You can also find the current version of these instructions online at
<https://www.kern-sohn.com/shop/de/DOWNLOADS/>
Under the heading Operating instructions

TYKUP-04-A-IA-e-2513



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1 Scope of delivery

- Interface adapter with cable for Ethernet
- Installation instructions

2 General information

i	• Weighing data can be transmitted over a network via the Ethernet interface. • Only KERN KUP adapters may be connected to the 15-pin Sub-D connection of the balance!
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3 Technical data

CORE	TYKUP-04-A	
Dimensions	Cable length	0,15 m
	Dimensions	70x40x23.5 mm (L x W x H)
Network	Work mode	TCP server
	Network protocol	TCP/IP
	IP assignment	Static/DHCP
	Internet Protocol Version	IPv4

4 Default settings

Parameters	Standard setting
Static IP	192.168.178.150
Subnet mask	255.255.255.0
Gateway	192.168.178.1
Username	admin
Password	admin
Port	23

5 Installation

5.1 Installing the interface on the scales

1. Switch off the device.
2. Plug the interface adapter into the KUP connection of the device.
3. Switch on the device. The interface adapter is automatically recognised by the device.

5.2 Connecting the interface

NOTE



⇒ Use a standard Ethernet cable (straight through) to connect to a PC or router

1. Connect the KUP to the network/PC with an Ethernet cable
2. Establish TCP connection
3. Use KCP commands to communicate with the scales

5.3 Setting the IP address

The interface is configured with a fixed IP address by default (see chap.4) There are the following options for configuring the IP address according to your own requirements.

5.3.1 About KCP commands

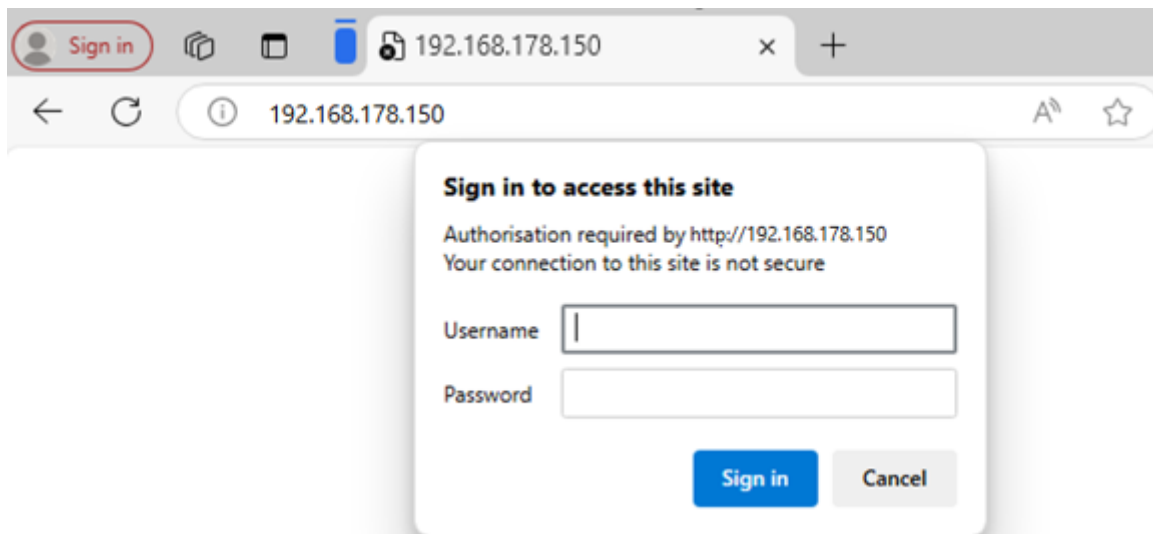
The KCP commands JNEA (IP address), JNEK (subnet mask) and JNEG (gateway) can be used to configure the IP address, subnet mask and gateway.

Please note that all three commands, JNEA, JNEK and JNEG, must be entered in strict sequence to finalise the Ethernet interface setting.

A detailed description can be found in the "KERN Communications Protocol" manual, available in the download area on our KERN homepage (www.kern-sohn.com)

5.3.2 Via the configuration page

The configuration page can be called up in the address bar under the IP address of the KUP.



After entering the user name and password (see section 4), the default settings can be changed.

The image shows the configuration interface of a USR device. The header is blue with the USR logo and the slogan 'Be Honest, Do Best!'. A left sidebar contains menu items: 'Current Status', 'Local IP Config' (highlighted in orange), 'Serial Port', 'Expand Function', 'Misc Config', and 'Reboot'. The main content area is titled 'parameter' and contains fields for 'IP type' (set to 'Static IP'), 'Static IP' (192.168.178.150), 'Submask' (255.255.255.0), 'Gateway' (192.168.178.1), and 'DNS Server' (208.67.222.222). At the bottom of this area are 'Save' and 'Cancel' buttons. On the right, a 'Help' sidebar lists definitions: 'IP type: StaticIP or DHCP', 'StaticIP: Module's static ip', 'Submask: usually 255.255.255.0', 'Gateway: Usually router's ip address', and 'DNS IP: DNS gateway or Router's IP'.

NOTE



- ⇒ Username and password can also be changed on the configuration page under "Misc Config".
- ⇒ There is no reset function for the password. If this has been changed, it must be kept in a safe place.

6 Small breakdown service

Error	Remedy
Connection cannot be established	• Ensure that the scales are switched on • Ensuring the cable connection • Ensure use of a standard Ethernet cable
No communication possible after changing the IP address via KCP commands	• Disconnect the scales from the power supply (mains + battery) for a few minutes and restart
Loss of IP address	• Querying the IP address from the scale with a serial second interface via KCP command JNEA