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Installation instructions
Ethernet converter with 2 ports

KERN YKI-11

Type TYKI-11-A

Version 1.0

2025-02

GB

GB

KERN YKI

Version 1.0 2025-02

Installation instructions
Ethernet converter with 2 ports

Contents

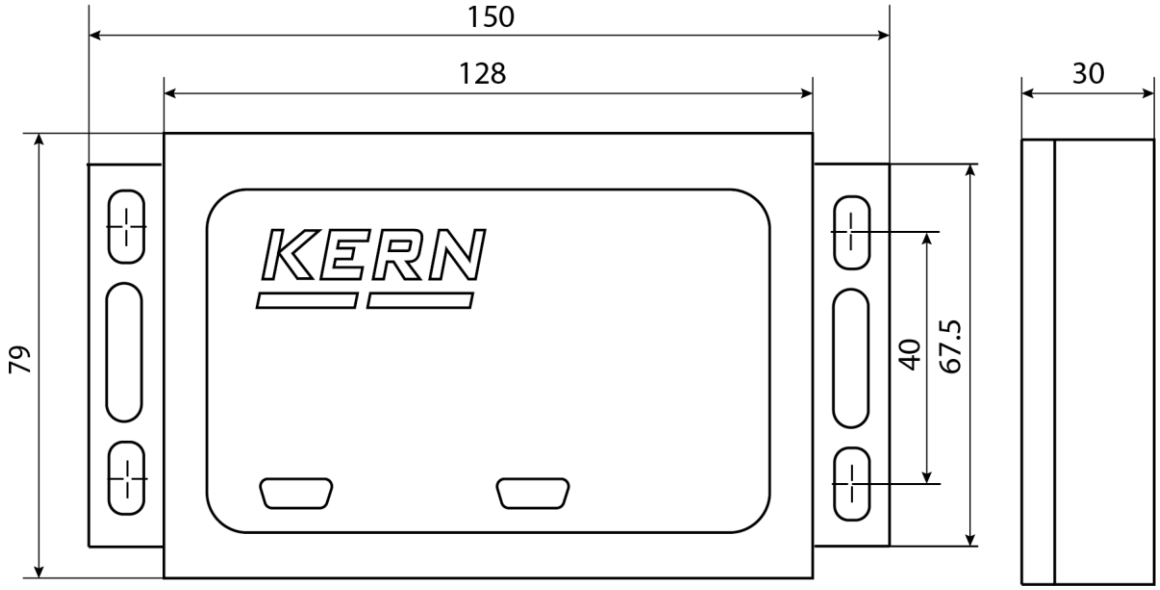
1 Scope of delivery

- YKI-11 Ethernet
- Mains adapter (EU)
- Installation instructions (German / English) on paper

If any of the items listed above are missing, contact your dealer immediately.

2 Technical data

KERN	**YKI-11**	
Item number / type	TYKI-11-A	
Hardware parame-ters	Ethernet	1 x RJ45, 10/100 Mbps
	Interfaces	2 x RS232, DB9 connector,
	Baud rate	600-230400 bps
	Input voltage Device	5-36 V DC
	Input voltage power supply unit	100-240 V AC; 50 / 60 Hz;
	Output voltage power supply unit	12 V; 1 A
	Working temperature	-40-+ 85 °C
	Storage temperature	-40-+ 105 °C
	Humidity during operation	5-95 % (non-condensing)
	Dimensions	150 x 98.8 x 30 mm (L x W x H)
	Work mode	TCP server
Software parameters	Network protocol	TCP / IP
	IP assignment	Static / DHCP
	Internet protocol version	IPv4
	User settings	Web server



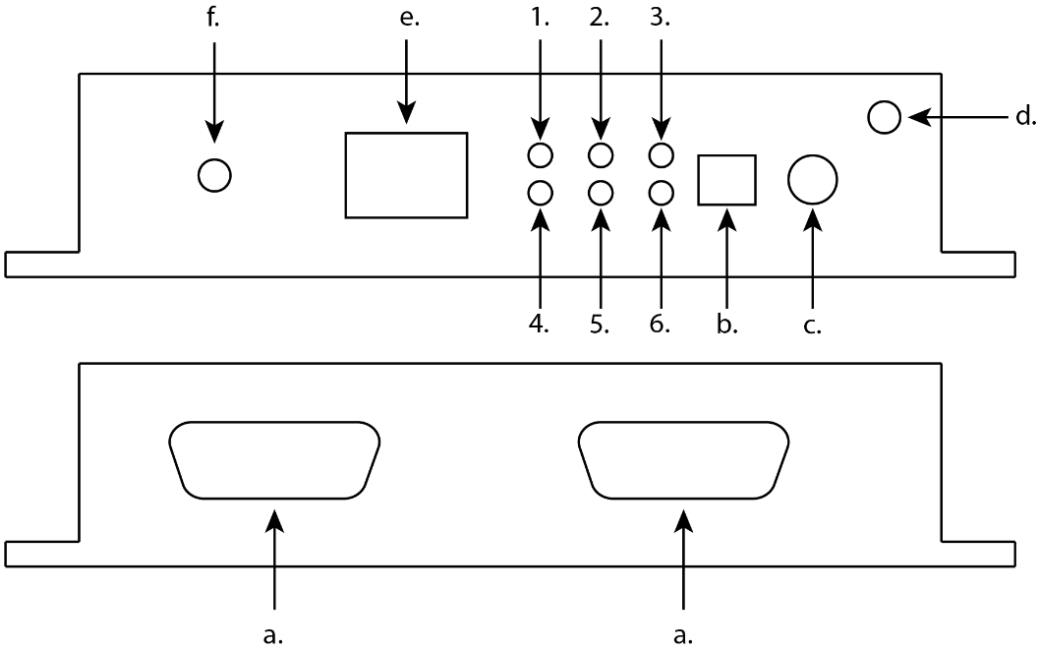
3 Default settings

Parameters	Standard setting
Static IP	192.168.0.7
MAC address	See type plate
Username	admin
Password	admin

3.1 Default settings Serial interfaces

Parameters	Standard setting
Mode	RS485
Baud rate	115200
Data bits	8
Parity	None
	1
Flow Control	None
Port 1	Socket Local Port 23
Port 2	Socket Local Port 26

4 Product overview



4.1 LED overview

Pos.	LED	Status
1.	RX1	Lights up: serial interface 1 receives data Off: serial interface 1 receives no data
2.	RX2	Lights up: serial interface 2 receives data Off: serial interface 2 receives no data
3.	Work	Lights up: Function normal Off: Malfunction
4.	TX1	Lights up: serial interface 1 is sending data Off: serial interface 1 does not send any data
5.	TX2	Lights up: serial interface 2 is sending data Off: serial interface 2 does not send any data
6.	Power	Lights up: Power on Off: Power off Flashing: faulty power supply

4.2 Connection overview

Pos.	Connection
a.	RS232 interface
b.	Power supply for top-hat rail mounting
c.	Power supply for power supply unit
d.	Earthing screw
e.	Ethernet
f.	Reload button

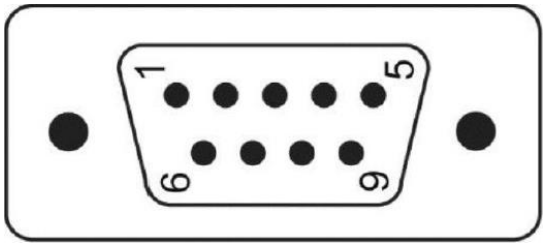
Only one of the two supply voltage connections (pos. b. or c.) may be used!

4.3 Pin assignment

Pin 7 and pin 8 do not need to be connected

However, they must never be connected directly to the computer, as this can lead to malfunctions

BD9 Pin	RS232
1	
2	RXD
3	TXD
4	
5	Ground
6	
7	RTS
8	CTS
9	



5 Installation

5.1 Installing the interface on the scales

1. Connect the YKI to the power supply unit and the power socket
2. The Power LED lights up continuously and the Work LED starts to flash.
3. Connect the RS 232 cable of the scale to the YKI
4. Switch on the scales

5.2 Connecting and configuring the Ethernet interface

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

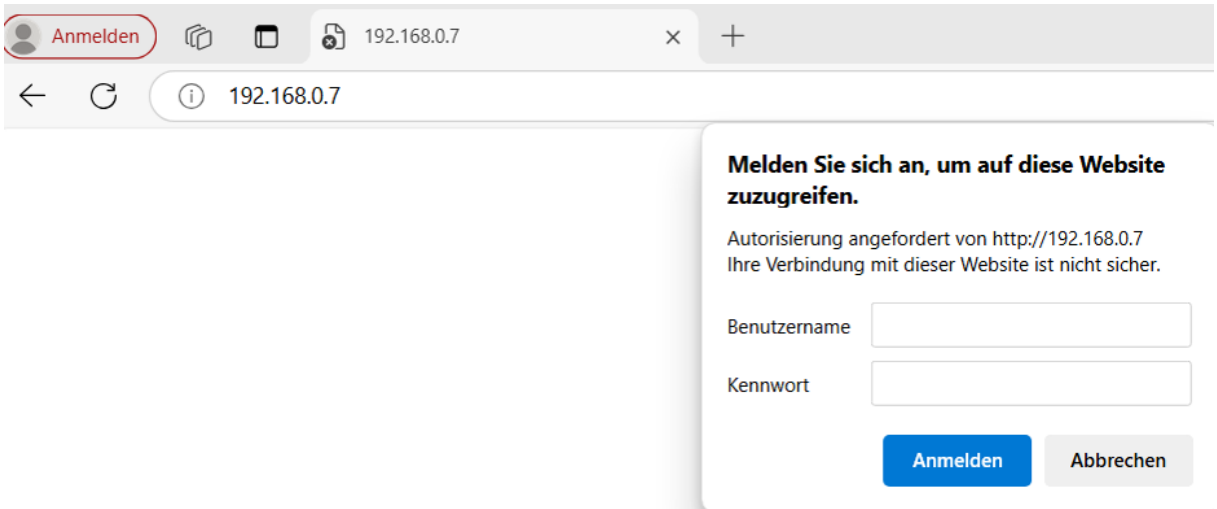
1. Connect YKI to the network/PC with an Ethernet cable
2. Establish TCP connection

5.3 Setting the IP address

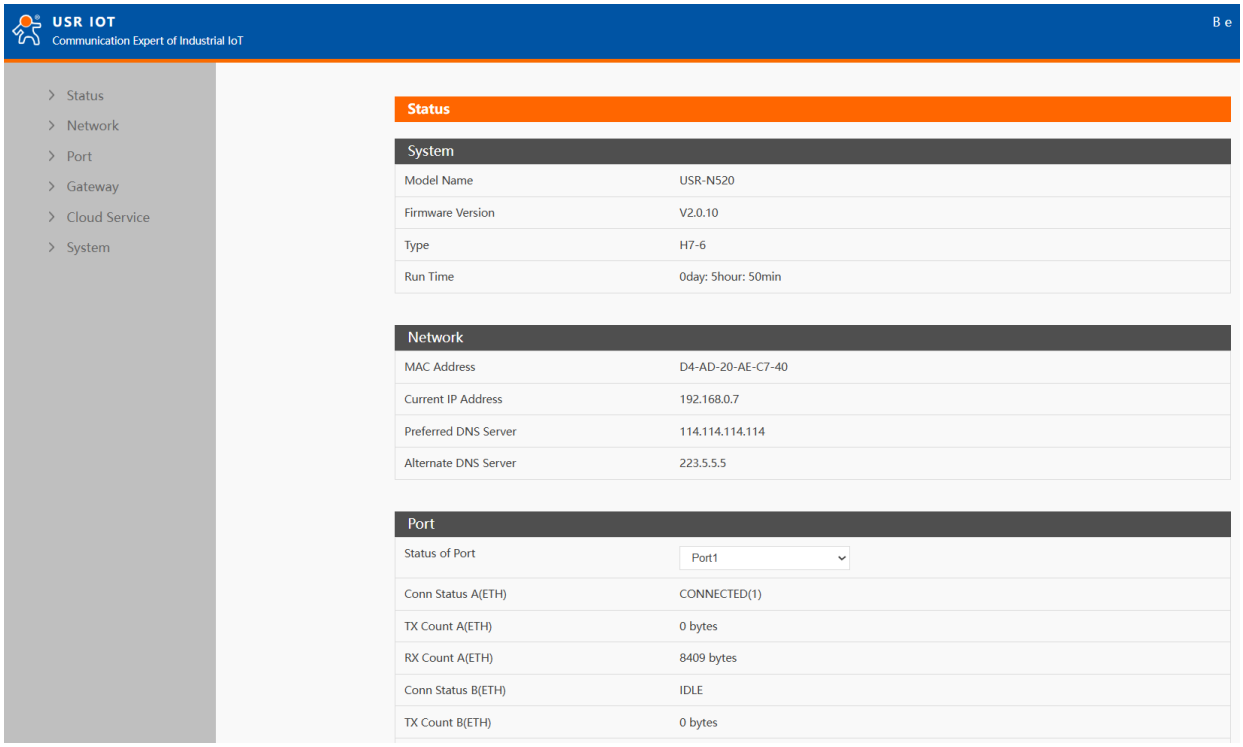
The interface is configured with a fixed IP address by default (see chapter 3). The IP address can be configured as required via the configuration page.

5.4 Overview of the configuration page

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



The configuration page interface is structured as follows:



The "Apply" button only saves the respective parameter change in the web interface. To make the change valid, the converter must be restarted!

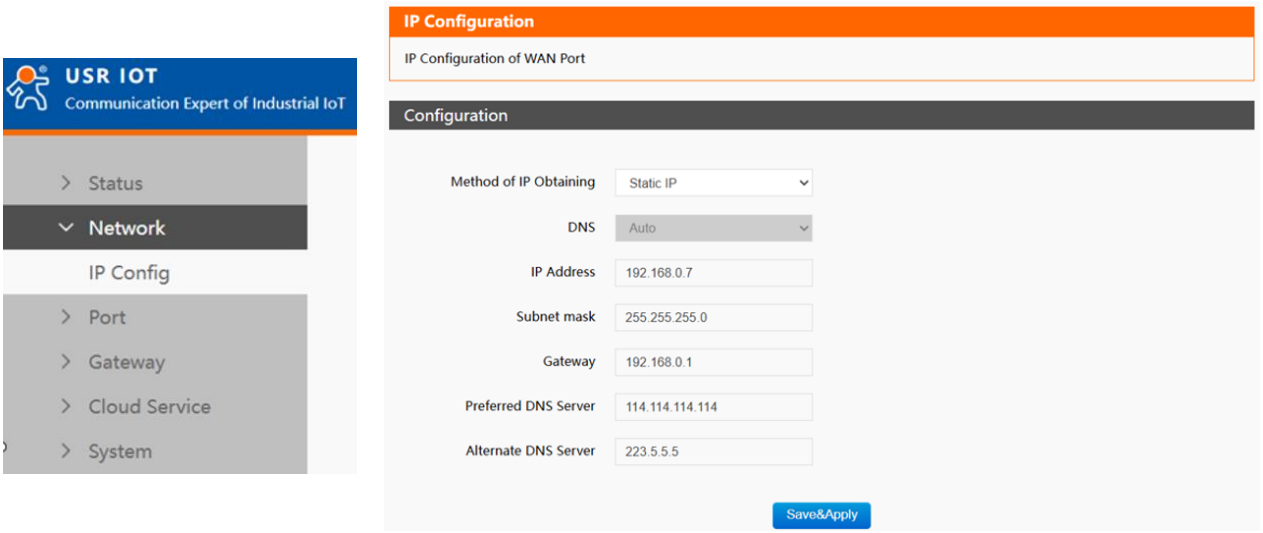
Click "Continue" to make further settings under the other tabs.

After the "Apply" button has been pressed, a new window must be displayed (see illustration below). If this does not happen, the page must be reloaded and the change made again!

The default settings can be restored using the reset function (see chapter 5.7)

5.5 Network settings

The network settings can be selected and adjusted under the menu item "Network" → "IP Config".



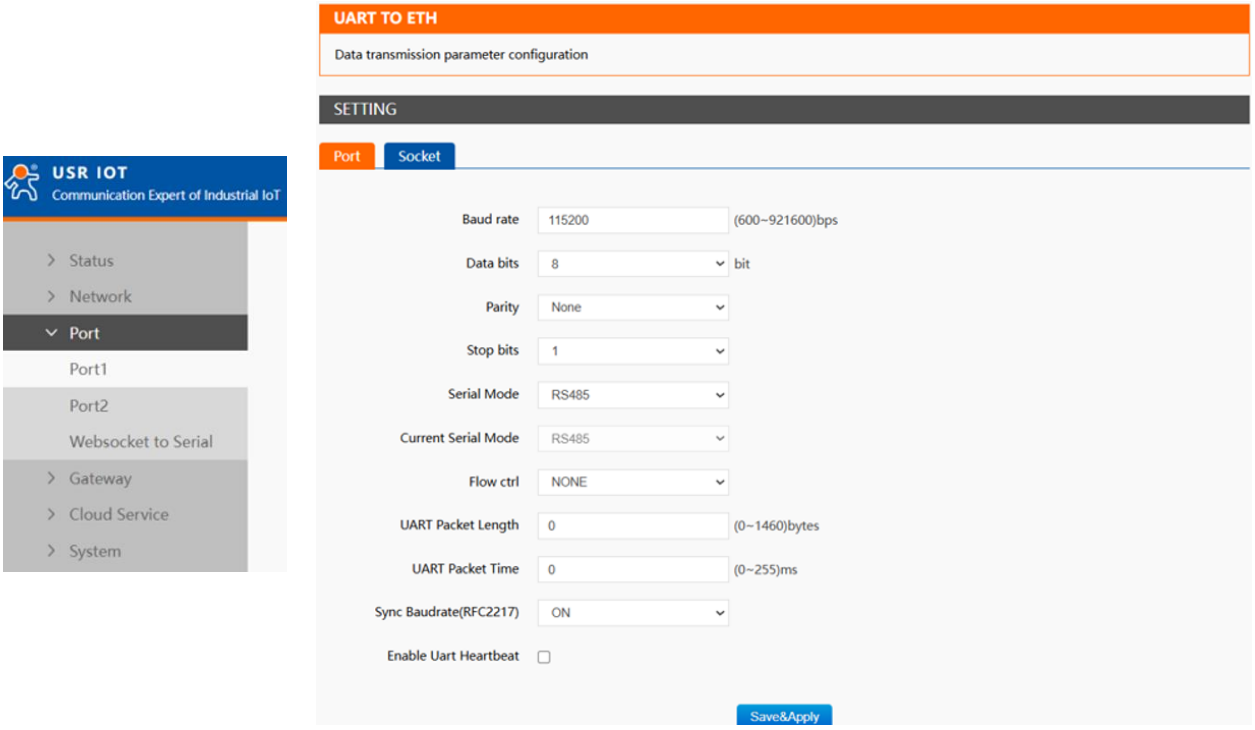
Once the changes have been entered, the "Apply" button must be pressed.

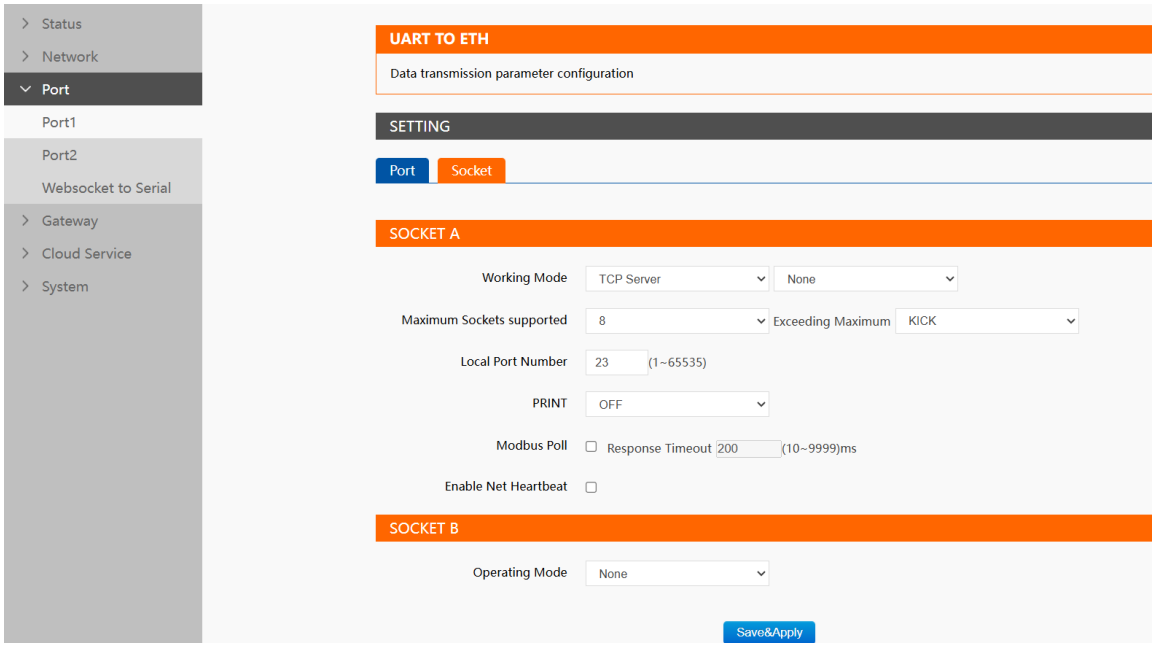
The "Apply" button only saves the respective parameter change in the web interface. To make the change valid, the converter must be restarted!

Click "Continue" to make further settings under the other tabs.

After the "Apply" button has been pressed, a new window must be displayed (see chapter 5.4). If this does not happen, the page must be reloaded and the change made again!

5.6 Serial RS232 interfaces





The default settings for port 1 are shown. The same settings apply to port 2.

The active tab is displayed in orange.

For correct functioning, the interface parameters of the scale must be set in the configuration interface. The default settings can be found in the manual for your scale. If you have changed the interface settings of the scale, call up the current settings on the scale. Information on calling up the menu can also be found in your scale manual.

Communication settings such as "Working Mode" and "Local Port Number" can be set via the "Socket" menu item.

The "Apply" button only saves the respective parameter change in the web interface. To make the change valid, the converter must be restarted!

Click "Continue" to make further settings under the other tabs.

After the "Apply" button has been pressed, a new window must be displayed (see chapter 5.4). If this does not happen, the page must be reloaded and the change made again!

5.7 Restore default settings

1. Press and hold the reload button for at least 5 seconds during operation

2. Reload configuration page
   ➔ Factory settings are restored

6 Small breakdown service

Error	Remedy
Connection cannot be established	Ensuring the power supply to the YKI and the scales
	Ensure that the scales are switched on
	Ensure that the correct RS232 cable is used. Refer to the manual for your scale for details.
	Ensure use of a standard Ethernet cable
	Enter the correct IP address in the target software
	Check the configuration of the RS232 interface
No communication possible after changing the IP address.	Check the settings and ensure that they have been saved.
	Ensure that the correct port and IP address have been address have been entered in the target software
Settings are not applied	Reload page and make settings again

If the fault cannot be rectified, contact your dealer.