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# **Operating manual KERN Interface Adapter with Cable** for WLAN

# **KERN YKUP-05**

Type TYKUP-05-A Version 1.0 2021-09 GB



You will find the current version of these instructions also online under: https://www.kern-sohn.com/shop/de/DOWNLOADS/ Under the column Operating instructions

TYKUP-05-A-BA-e-2110\_WLAN



KERN Interface Adapter with Cable Version 1.0 2021-09 Installation Instructions for WLAN

# Contents

1	General hints	2
1.1	Installation	2
1.2	Extract from the KERN Communications Protocol KCP (Ref. manual 1.5.0)	5

# 1 General hints

Cable length: 0.15 m

•	•	Weighing data can be transferred by WLAN
⊥	•	Only KERN KUP-adapters may be connected to the 15-pol-sub- D-connection of the balance!

## 1.1 Installation

- Turn off appliance
- Plug in KUP-adapter (WLAN) at the 15-pol-Sub-D-connection of the appliance
- Switch on appliance
  - o The KUP adapter is automatically recognised by the appliance
- After switching-on without configuration, the appliance creates first a WLAN access point named "AI-Thinker\_xxxxx.
- ⇒ Connect the computer to the appliance via this access point
- Enter the IP-address 192.168.4.1 in a web browser (standard-IP). The configuration website will appear. The static IP will be assigned via the KCPcommands.

Α	Select operating mode "apsta"
В	Enter WLAN-network name and the corresponding password
С	Save settings and restart target software (reboot button)

(s. fig.:)

WebConfig					Restore	Reboot
ting		SoftAP		Station		
115200	~	SSID:	AI-THINKER_872B77	Mode:	apsta	~ [
8	~	Passwd:		AP Name:	PDWLAN	
NONE	~	Auth Mode:	OPEN V	AP Password:	12345678	
1	~	IP addr:	192.168.4.1	IP address:	0.0.0.0	
		Subnet mask:	255.255.255.0	Subnet mask:	0.0.0.0	
		Gateway:	192.168.4.1	Gateway:	0.0.0	
		Mac:	be:dd:c2:87:2b:77	Mac:	bc:dd:c2:87:2b:77	
	Save		Save			Save
	WebConfig ting 115200 8 NONE 1	Img           115200           8           NONE           1	SoftAP       Ining     SoftAP       115200     SSID:       8     Passwd:       NONE     Auth Mode:       1     IP addr:       Subnet mask:     Gateway:       Mac:     Save	SoftAP           115200         SoftAP           115200         SSID:           AI-THINKER_872B77           B         Passwd:           NONE         Auth Mode:           1         IP addr:           192.168.4.1           Subnet mask:         255.255.255.0           Gateway:         192.168.4.1           Mac:         be:dd:c2:87:2b:77	SoftAP       Station         115200       SSID:       AI-THINKER_872B77       Mode:         8       Passwd:       AP Name:         NONE       Auth Mode:       OPEN       AP Password:         1       IP addr:       192.168.4.1       IP address:         Subnet mask:       255.255.255.0       Subnet mask:         Gateway:       192.168.4.1       Gateway:         Mac:       be:dd:c2:87:2b:77       Mac:	SoftAP       Station         115200       SSID:       AI-THINKER_872B77       Mode:       apsta         8       Passwd:       Passwd:       AP Name:       PDWLAN         NONE       V       Auth Mode:       OPEN       AP Password:       12345678         1       V       IP addr:       192.168.4.1       IP address:       0.0.0         Subnet mask:       255.255.0       Subnet mask:       0.0.0         Gateway:       192.168.4.1       Gateway::       0.0.0         Mac:       be:dd:c2:87:2b:77       Mac:       bc:dd:c2:87:2b:77

D

Disconnect the connection to the PC and the power supply of the appliance

If settings were made on the appliance, make sure that the appliance is completely switched off! Only then the settings will be imported. Update (reboot-button) and saving (save-button) are not sufficient!

Е	Reconnect the appliance to the power supply,
	Re-establish connection with the PC
	<ul> <li>Invoke the configuration website and check the IP-address.</li> </ul>

(s. fig.:)

Serial Set	ting		SoftAP		Station		
Baud:	115200	~	SSID:	AI-THINKER_872B77	Mode:	apsta	~
Databits:	8	~	Passwd:		AP Name:	PDWLAN	
Parity:	NONE	~	Auth Mode:	OPEN Y	AP Password	12345678	
Stopbits:	1	~	IP addr:	192.168.4.1	IP address:	10.0.11.13	
			Subnet mask:	255.255.255.0	Subnet mask:	255.255,0.0	
			Gateway:	192.168.4.1	Gateway:	10.0.0.1	
			Mac:	be:dd:c2:87:2b:77	Mac:	bc:dd:c2:87:2b:77	
		Save		Save			Save

F	Close the configuration website, connect the PC to the selected network
G	Open the target software (e.g. KERN Balance Connection) and enter the IP-address and port 23.

(s. fig.:)

:P/IP -> 10.0.11.13:23 < 440	0 (Gewichtswert-Parse	er) - Eigenschafter	ı			
Allgemein Bus IP Port Eigenschaften						
TCP/UDP / IP Einstellur	ngen:					
Verbindungsart:	TCP - Client - verbind	end	-	]		
Lokale IP Adresse:		Port:		]		
Ziel Host/IP Adresse:	10.0.11.13	Port:	23			
Keep-Alive:						
Abbrechen	Abbrechen Anwenden					

For inquiry of the configuration allocated via DHCP, as well as to the specific/static configuration of the IP-address, subnet-mask or the gateway, the KCP-commands **JNWx** can be used.

### 1.2 Extract from the KERN Communications Protocol KCP (Ref. manual 1.5.0)

**JNWA** – Query / set network address (IP) of WIFI Interface

#### Description

Use this command to query or set the network address (IP) of WIFI Interface.

#### **Syntax**

#### Command

JNWA	Query the current network address.
JNWA «NetworkAddress»	Set the current network address.
JNWA_0.0.0	Activate DHCP.

#### Responses

JNWA A «NetworkAddress»	Current network address (IP).
JNWA_A	Network address setting successfully performed.
JNWA_I	Command understood but currently not executable (device is currently executing another command, e.g. taring, or timeout as stability was not reached).
JNWA_L	Command understood but not executable (incorrect parameter).

#### **Parameters / Return values**

Name	Туре	Values	Meaning
NetworkAddress	string		Network address (e.g. 192.168.0.1).

#### **Comments**

- All three commands, JNWA, JNWK and JNWG are required to enter sequentially for completing the setting of WIFI Interface.
- The exceptional case is activating the DHCP. The network mask and gateway address are not required. A single command "JNWA 0.0.0.0" can activate the DHCP of the WIFI Interface.
- It may take a few seconds to response to the command.

#### **Examples**

V	JNWA	Send current network address.
1	JNWA_A_192.168.0.1	The current network address is 192.168.0.1.
V	JNWA_192.168.0.1	Set network address to 192.168.0.1.
1	JNWA_A	Set network address setting successfully performed.
Y	JNWA_0.0.0	Activate DHCP setting.

	JNWA_A	Successfully activated DHCP setting	٦.
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#### See also

<b>→</b>	JNWK - Query / set network mask
<b>→</b>	JNWG - Query / set gateway address

#### Description

Use this command to query or set the network mask of WIFI Interface.

#### **Syntax**

#### Command

JNWK	Query the current network mask.
JNWK <sub>.</sub> «NetworkMask»	Set the current network mask.

#### Responses

JNWK_A_«NetworkMask»	Current network mask.
JNWK_A	Network mask setting successfully
	performed.
JNWK_I	Command understood but currently not executable
	(device is currently executing another command,
	e.g. taring, or timeout as stability was not reached).
JNWK_L	Command understood but not executable (incorrect parameter).

#### **Parameters / Return values**

Name	Туре	Values	Meaning
NetworkMask	string		Network mask (e.g. 255.255.255.0)

#### **Comments**

- All three commands, JNWA, JNWK and JNWG are required to enter sequentially for completing the setting of WIFI Interface.
- The exceptional case is activating the DHCP. The network mask and gateway address are not required. A single command "JNWA 0.0.0.0" can activate the DHCP of the WIFI Interface.
- It may take a few seconds to response to the command.

#### **Examples**

¥	JNWK	Send current network mask.
	JNWK_A_255.255.255.0	The current network mask is
		255.255.255.0.
V	JNWK 255.255.255.0	Set network mask to 255.255.255.0.
	JNWK_A	Set network mask setting successfully
		performed.

#### See also

<b>→</b>	JNWA - Query / set network address (IP)
<b>→</b>	JNWG - Query / set gateway address

#### Description

Use this command to query or set the gateway address of WIFI Interface.

#### **Syntax**

#### Command

JNWG	Query the current gateway address.
JNWG_«GatewayAddress»	Set the current gateway address.

#### Responses

JNWG_A_ <i>«GatewayAddress»</i>	Current gateway address.
JNWG_A	Gateway address setting successfully performed.
JNWG <sub>J</sub> I	Command understood but currently not executable (device is currently executing another command, e.g. taring, or timeout as stability was not reached).
JNWG_L	Command understood but not executable (incorrect parameter).

#### **Parameters / Return values**

Name	Туре	Values	Meaning
GatewayAddress	string		Gateway address (e.g. 192.168.0.99)

#### Comments

- All three commands, JNWA, JNWK and JNWG are required to enter sequentially for completing the setting of WIFI Interface.
- The exceptional case is activating the DHCP. The network mask and gateway address are not required. A single command "JNWA 0.0.0.0" can activate the DHCP of the WIFI Interface.
- It may take a few seconds to response to the command.

#### **Examples**

	TNWG	Sand current gatoway address
	61116	Send current galeway address.
	JNWG_A_192.168.0.99	The current gateway address is
		192.168.0.99.
Y	JNWG 192.168.0.99	Set gateway address to 192.168.0.99.
	JNWG_A	Set gateway address setting successfully
		performed.

### See also

<b>→</b>	JNWA - Query / set network address (IP)
+	JNWK - Query / set network mask