



KERN YKUP-05 Interface Adapter with Cable for WLAN Instruction Manual

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

i 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

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General hints

Cable length: 0.15 m

- **i** Weighing data can be transferred by WLAN
- Only KERN KUP-adapters may be connected to the 15-pol-subD-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
 - 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_xxxxxx”.
- ⇒ 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.

A	Select operating mode “apsta”
B	Enter WLAN-network name and the corresponding password
C	Save settings and restart target software (reboot button)

(s. fig.:)

The image shows the ESP8266 WebConfig interface. It has three main panels: Serial Setting, SoftAP, and Station. At the top right are 'Restore' and 'Reboot' buttons. The Serial Setting panel has fields for Baud (115200), Databits (8), Parity (NONE), and Stopbits (1), with a 'Save' button at the bottom. The SoftAP panel has fields for SSID (AI-THINKER_872B77), Passwd, Auth Mode (OPEN), IP addr (192.168.4.1), Subnet mask (255.255.255.0), Gateway (192.168.4.1), and Mac (bc:dd:c2:87:2b:77), with a 'Save' button at the bottom. The Station panel has fields for Mode (apsta), AP Name (PDWLAN), AP Password (12345678), IP address (0.0.0.0), Subnet mask (0.0.0.0), Gateway (0.0.0.0), and Mac (bc:dd:c2:87:2b:77), with a 'Save' button at the bottom. Labels A, B, and C are placed next to the Mode, AP Name, and the Station Save button respectively.

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

i 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!

E

- Reconnect the appliance to the power supply,
- Re-establish connection with the PC
- Invoke the configuration website and check the IP-address.

(s. fig.:)

The image shows the ESP8266 WebConfig interface with three main configuration panels: Serial Setting, SoftAP, and Station. The Serial Setting panel includes fields for Baud (115200), Databits (8), Parity (NONE), and Stopbits (1). The SoftAP panel includes fields for SSID (AI-THINKER_872B77), Password, Auth Mode (OPEN), IP address (192.168.4.1), Subnet mask (255.255.255.0), Gateway (192.168.4.1), and Mac (bc:dd:c2:87:2b:77). The Station panel includes fields for Mode (apsta), AP Name (PDWLAN), AP Password (12345678), IP address (10.0.11.13), Subnet mask (255.255.0.0), Gateway (10.0.0.1), and Mac (bc:dd:c2:87:2b:77). Each panel has a 'Save' button. At the top right, there are 'Restore' and 'Reboot' buttons. A small 'E' in a box is next to the IP address field in the Station panel.

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.:)

The image shows a screenshot of a Windows dialog box titled 'TCP/IP -> 10.0.11.13:23 < 440 (Gewichtswert-Parser) - Eigenschaften'. The dialog has three tabs: 'Allgemein', 'Bus', and 'IP Port Eigenschaften'. The 'IP Port Eigenschaften' tab is selected. It contains a section 'TCP/UDP / IP Einstellungen:' with a 'Verbindungsart:' dropdown menu set to 'TCP - Client - verbindend'. Below this are fields for 'Lokale IP Adresse:', 'Ziel Host/IP Adresse:' (set to 10.0.11.13), 'Port:' (set to 23), and a 'Keep-Alive:' checkbox which is checked. At the bottom are 'Abbrechen' and 'Anwenden' buttons.

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 0.0.0.0	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	Type	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

	JNWA	Send current network address.
	JNWA A 192.168.0.1	The current network address is 192.168.0.1.
	JNWA 192.168.0.1	Set network address to 192.168.0.1.
	JNWA A	Set network address setting successfully performed.
	JNWA 0.0.0.0	Activate DHCP setting.
	JNWA A	Successfully activated DHCP setting.

See also

-  JNWK – Query / set network mask
-  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 «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	Type	Values	Meaning	
NetworkAddress	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.
	JNWK 255.255.255.0	Set network mask to 255.255.255.0.
	JNWK A	Set network mask setting successfully performed.

See also

	JNWA – Query / set network address (IP)
	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 «GatewayAddress»	Current gateway address.
JNWG A	Gateway address setting successfully performed.
JNWG 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	Type	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

	JNWG	Send current gateway address.
	JNWG A 192.168.0.99	The current gateway address is 192.168.0.99.
	JNWG 192.168.0.99	Set gateway address to 192.168.0.99.
	JNWG A	Set gateway address setting successfully performed.

See also

	JNWA – Query / set network address (IP)
	JNWK – Query / set network mask

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Documents / Resources

	<p>KERN YKUP-05 Interface Adapter with Cable for WLAN [pdf] Instruction Manual YKUP-05 Interface Adapter with Cable for WLAN, YKUP-05, Interface Adapter with Cable for W LAN, Adapter with Cable for WLAN, Cable for WLAN</p>
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References

-  [Your Name as Your Email | Hover Realnames](#)
-  [KERN & SOHN: Waagen, Mikroskope & Messinstrumente](#)