

MSTKN Socket Tray –

H-S14-HM-WLAN-GBA –



WiFi 802.11 a, b, g, n dual band 2.4/5GHz
4-socket selector tray with status indication and user guidance via colored LEDs
2 operation modes possible:
 free selection & user guidance mode
Expandable up to 60 sockets via internal bussystem
Maximum tool diameter of 38mm
rugged aluminium enclosure (IP54)
GBA 12V Akku 3.0Ah power supply
• Side bumpers for mechanical protection

Overview

The MSTKN socket trays are developed for industrial environments. The tray is a Modbus TCP slave and can be connected to any existing bus system.

Description

Modbus interface

The Fieldbus interface is working over WiFi with cyclic data exchange using Open-Modbus-TCP/UDP. The interface is Class 0 compliant with extensions for Class 2 (FC23 r/w multiple registers). The device provides two words of process data (one input and one output register), which can be accessed as follows:

- Read: Register address 512 (hex 0x200) provides socket tray status data; address 0 reads back the output register.
- Write: Register address 0 (hex 0x000) sets socket tray control registers

The control register can be split into two areas (each 1 byte) for “command” (bits 0-7) and “selection” (bits 8-15). The status register is similarly split into two bytes: “state” (bits 0-7) and “selection” (bits 8-15).

LED Indication

Each socket has three colored LEDs (red, yellow and green) to signal the state of the socket and the preselection of the control unit. They can also show malfunctions of the socket tray itself. In addition, the tray provides two additional LEDs (red & green) with user defined functions, e.g. to show OK or NOK tightening results.

Operating modes

Depending on which operating mode is selected it is possible to guide the user which tool to pick (user guidance) or leave this decision to the user (free selection).

System configuration

The device is configured through the built-in webserver. By default, a WIFI access point is started, so a connection from a mobile phone or laptop can be established. Configuration is then done through a web browser.

Connections

There is a M12 connector to connect additional MSTKN extension modules or a PC. Note that extension modules must be self-powered. There is a current limited voltage source to power a termination network, however. On each side panel there is a 2.4/5GHz antenna, located to provide best WiFi performance through antenna diversity.

Technical Data

Dimensions: WxHxD 255x105x60 mm

Weight: approx. 1,9 kg

Admissible ambient temperature: -20 ... +50°C

System of protection: IP54

Power supply: GBA 12V Akku 3.0Ah

Interfaces: 1x M12 A-coded (F), 1x M12 A-coded (M)

EMC: EN 61000-6-2 und EN 61000-6-4

Ethernet WLAN Key Features:

- Supports 802.11 a, b, g, n
- Dual-band radio, 2.4GHz and 5GHz
- 2.4GHz channels 1-13
- 5GHz channels 36-165 (U-NII band 1,2, 2e, 3)
- 802.11n space time block code for extended range and throughput
- Security support: Enterprise, WPA2-PSK, WPA-PSK, PEAP, LEAP, EAP-TLS, WEP64/128
- Quality of Service: 802.11e and WMM

Order Information

Order Code	Description and references
23014	MSTKN-H-S14-HM-WLAN-GBA