OPERATING INSTRUCTIONS

NetBee

- Original operating instructions -

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1 Operating principles

Dear customers,

thank you for choosing a HS-Technik GmbH product.

This quality product „Made in Germany" fulfils the highest requirements with regard to performance, quality and accuracy. When used correctly the product will undoubtedly perform very well for many years.

These operating instructions contain information on safety and for the operation of the NetBee. In addition it contains information on the dimensions and technical data. We would be happy to assist you with additional information or to answer your questions. Our technical support and our technicians would be happy to assist you.

1.1   Aim

This manual is a complete guide for the NetBee Socket Tray, describing how to use.

1.2 NetBee Product Safety

> ⚠️ **WARNING**
> Before using the product, read the NetBee Socket Tray Product Safety manual and strictly follow the safety instructions.

1.3 Reference documents

To have a complete view of the NetBee Socket Tray applications, refer also the following HS-Technik GmbH documents:

• NetBee Product Safety
• NetBee User Manual

1.4 Warranty Safety

Contact HS-Technik GmbH to claim a product. Warranty is applied only if the product has been installed, operated and overhauled according to the instructions provided with the product.

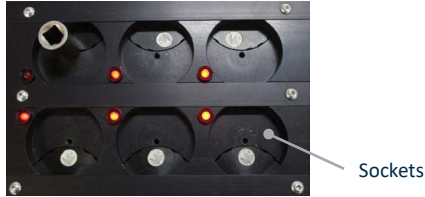Please also see the delivery conditions applied by the HS-Technik GmbH.

2 Specifications

2.1 Technical
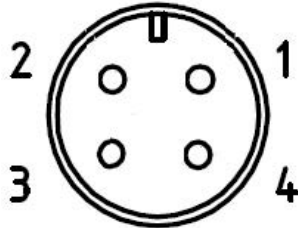
Sockets	

Depending from the model:
- 6 sockets, 39 mm
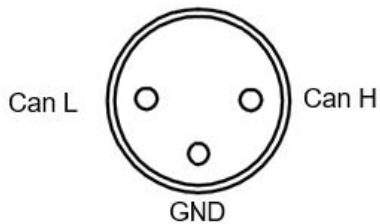- 6 sockets, 50 mm
- 8 sockets, 39 mm

Power supply

Models CANBUS and ETHERNET

The External power supply must be provided as following:
- Pin 3: +24VDC, maximum current 800 mA
- Pin 4: GND

Power Supply connector view from outside

Canbus connector view from outside
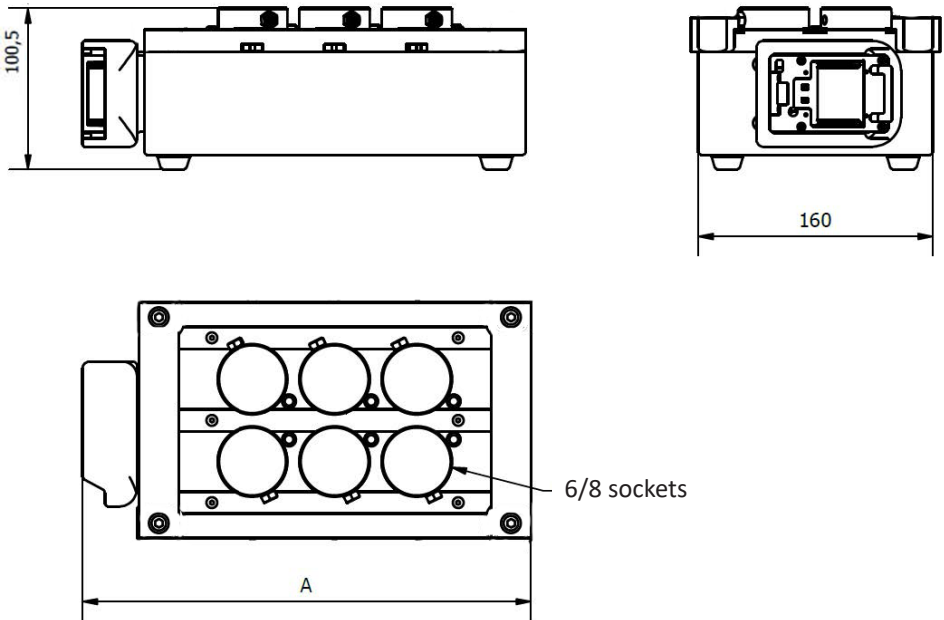The mating connectors are delivered with the NetBee Socket Tray.

Models WiFi
Rechargeable battery (HST-PR-1850 18 V 5.0 Ah, Li-Ion)
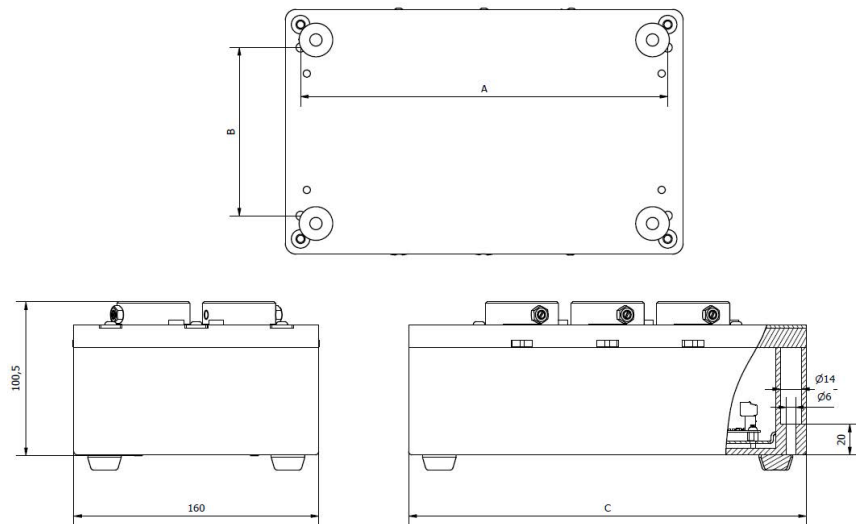for models WiFi. Battery last for at least 8 hours.

2.2   Dimensions / Weight

Dimensions are in millimeters. Customized NetBee Socket Tray versions may have different dimensions.

NetBee Socket Tray WiFi

6/8 sockets

Model	A	Weight
NetBee-ST6-39-W	302 mm	4.0 kg
NetBee-ST6-50-W	302 mm	4.0 kg
NetBee-ST8-39-W	402 mm	5.2 kg

NetBee Socket Tray CANBUS / Ethernet

Model	A	B	C	Weight
NetBee-ST6-39	240 mm	110 mm	260 mm	3.8 kg
NetBee-ST6-50	240 mm	110 mm	260 mm	3.8 kg
NetBee-ST8-39	340 mm	110 mm	360 mm	5.0 kg

2.3   Environmental

The following conditions must be observed during operation:

• Internal Use only
• Environmental Class: II
• Ambient Temperature: 5 to 40°C
• Atmospheric humidity: 95%, non-condensing
• Altitude: Up to 2000m
• IP grade: IP 40

3 Function

The NetBee Socket Tray is designed to manage the sockets used on tools and wrenches.

Operation mode:

• All the sockets must be present on the tray.
• Only one socket must be taken at a time, according to the parameter (socket number) of the tightening operation.
• If the wrong socket is taken, the tightening operation is not started.

NetBee

• NetBee defines the sequence of the assembly process, and checks that the operator takes the correct socket from the tray

Refer to the NetBee user manual for more information.

> **NOTE**
> The NetBee Socket Tray does not start automatically a tightening operation or a sequence when the socket is removed from the tray. NetBee starts the operation and makes a check on the socket.

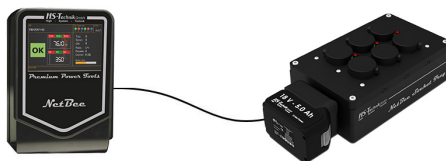The NetBee Socket Tray connected to NetBee via WiFi

The NetBee Socket Tray connected via WiFi

The NetBee Socket Tray connected to NetBee via Ethernet

The NetBee Socket Tray connected via Ethernet

The NetBee Socket Tray connected to NetBee via Canbus

3.1   Models

The NetBee Socket Tray can be delivered in the versions:

WiFi: Wireless communication, working with:
   • NetBee

Ethernet: Ethernet communication
   • NetBee

Canbus: Canbus interface (for NetBee only), working with:
   • NetBee

Sockets configuration can be:

• **6 sockets 39 mm**
• **6 sockets 50 mm**
• **8 sockets 39 mm**

3.2   Equipment configuration

1. Sockets
2. LED (one per socket)
3. Sensor position adjustment

3.3   Main parts

Socket and LED

Place where the socket is placed:

LED ACTIVE: Socket not present.
LED BLINK: Indicates the socket that must be used for the tightening program.
When the NetBee Socket Tray is switched on, the LEDs are activated in sequence.

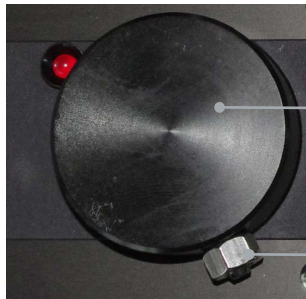The position of the sensor can be adjusted to suit the sockets used:

Sensor

Rotate to adjust

To be detected, sockets must be metallic.

Normally the cap is used with a customized hole to match the shape of the socket (in the figure above the cap is shown as "new", without any hole on top):

Cap

Grain and nut

To remove the caps, remove the 4 screws and pull the bars:

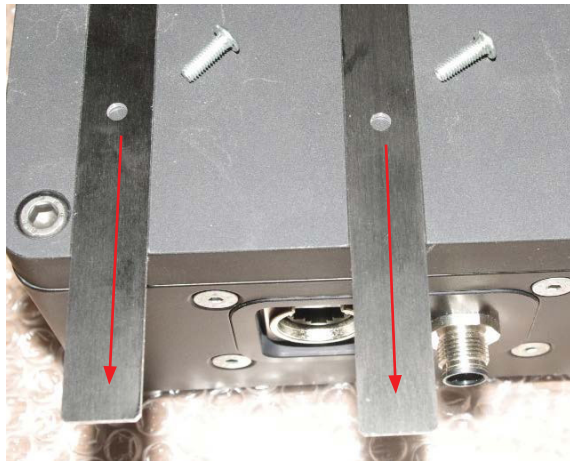

Screw

Screw

Screw

Screw

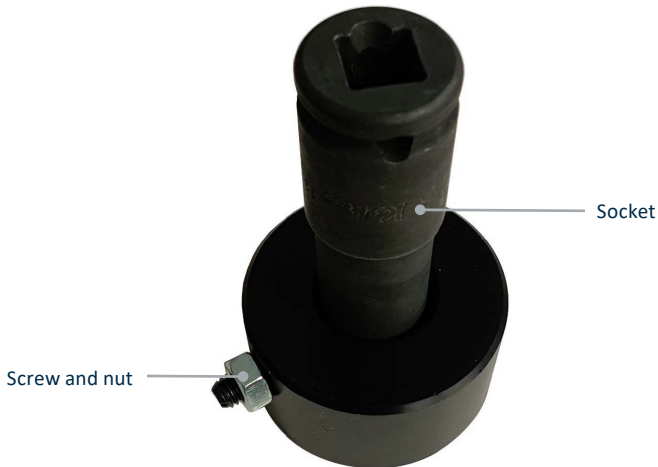Cap, which must be machined according to the socket used.

The grain and nut are used to provide friction to the socket used, especially in applications where the socket tray is mounted on a moving cart.
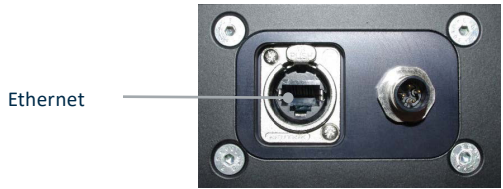

Socket

Screw and nut

Battery

For NetBee Socket Tray WiFi version only, which is powered by external battery

Battery

Ethernet port   For NetBee

Ethernet
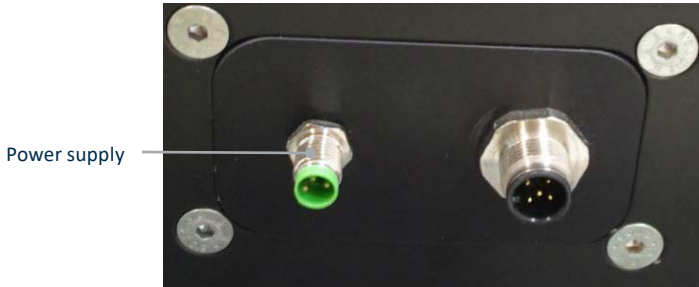

Canbus interface   For NetBee Socket Tray version Canbus, this connector is available

Canbus
connector

See the Technical chapter for more information about pinout of the connector.

Power supply   For Ethernet and Canbus versions only

Power supply

See the Technical chapter for more information about pinout of the connector.

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4 NetBee Socket Tray Configuration

The NetBee Socket Tray, when first received, must be configured to work in the specific network of the user (not for Canbus models).

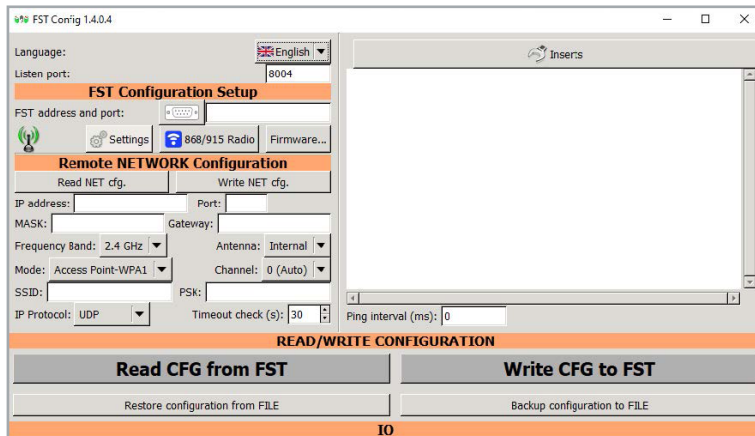The NetBee Socket Tray are configured, by default, as following:

NetBee Socket Tray WiFi:

• **SSID:** Tecnogi1
• **Password:** Codrus65
• **IP:** 192.168.1.5
• **Mask:** 255.255.255.0

NetBee Socket Tray Ethernet:
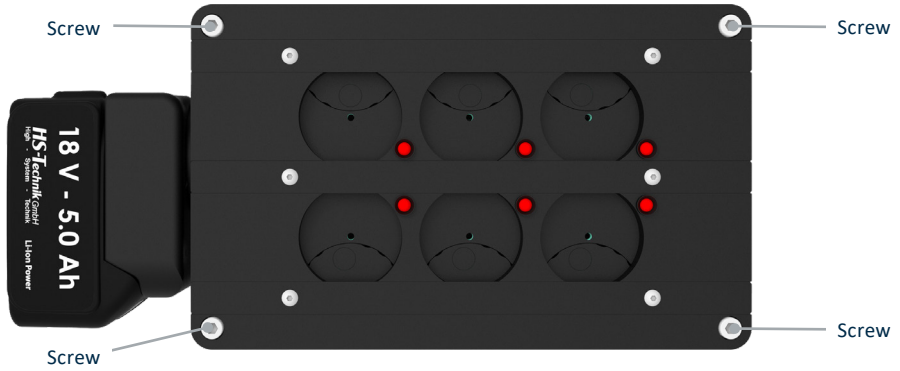
• **DHCP**
• **IP Address:** 192.168.1.5

The programming software CB Config is delivered with the NetBee Socket Tray. Launch the software. The following window is shown:
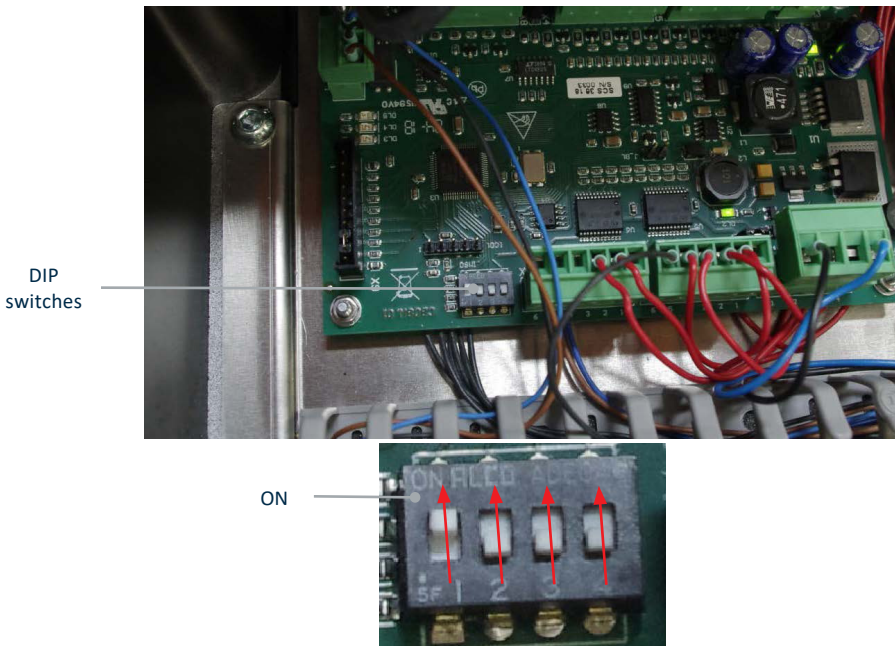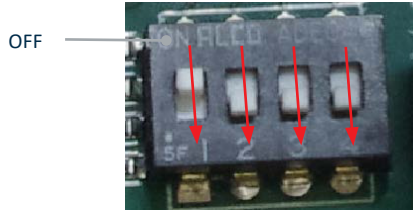
NetBee Socket Tray WiFi Configuration

Switch off the NetBee Socket Tray and open the chassis, removing the 4 screws:

Set the internal DIP switches to ON:

Switch on the NetBee Socket Tray. With the configuration software above, set the new network parameters and save. Switch off the NetBee Socket Tray. Set the DIP switches to OFF:

OFF

Close the NetBee Socket Tray chassis with the 4 screws.

NetBee Socket Tray General Configuration

Sockets and LEDs advanced configuration

Sockets and LEDs status

Read and write configuration

The panel with Sockets (input) and LEDs (output) status is a monitor of the sockets status and it is possible to activate the LEDs manually (useful for testing).

The number of sockets and LEDs in the panel matches those available on the NetBee Socket Tray.

The NetBee Socket Tray is delivered already configured. In special applications, it might be necessary a customized configuration, using the **INSERT** menu in the window above. In that case, HS-Technik GmbH will provide dedicated instructions. Otherwise, it is strongly recommended not to change the parameters in the **INSERT** menu.

5 NetBee Socket Tray Maintenance

The NetBee Socket Tray does not require a specific maintenance. Keep the NetBee Socket Tray clean and verify the LEDs are working when the NetBee Socket Tray is powered on. For WiFi models, refer to the battery manufacturer manuals for battery instructions and maintenance.

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