

# Original Operating Manual

## ehb WLANdongle



**ehb 5465**

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## 1 About these instructions

### 1.1 Target group

#### Operator of the device

This documentation is intended for the operator of the device.

#### Information for service personnel

This documentation is also intended for service personnel who install the device and connect it to the engine.

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#### NOTE

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If your end customer carries out installation himself, please note that he should receive the edition of the operating manual.

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### 1.2 Use and safekeeping

- Read and follow the operating manual before working on the device.
- Keep the operating manual in a clearly legible condition.
- The operating manual must be provided when the device is resold.

### 1.3 Symbols and abbreviations

You can find the most important abbreviations from this operating manual below

Abbreviations	Description
WLAN	Wireless Local Area Network

*Tab. 1: Abbreviations*

**Listings in handling instructions:**

1. Step 1
2. Step 2
3. ...

**Numbering in figures and legends:**

- 1 Component 1
- 2 Component 2
- 3 ...

**Item list for information without specific sequence:**

- Information
- Information
- ...

## 1.4 Presentation of information

### **ATTENTION**

The signal word **ATTENTION** identifies possible material damage. Non-observance can cause damage to the machine.



### **Note concerning environmental protection**

The signal word **Note concerning environmental protection** identifies information on environmental protection.

### **NOTE**

The signal word **NOTE** identifies additional information about the device or its accessories.



#### **Internal reference:**

The internal reference identifies references to further information within the document.



#### **External reference:**

The external reference identifies references to external documents in which optional further information can be found.

## 2 Safety

### 2.1 General information on safety

<b>Use</b>	<p>This device is to be operated only in combination with the supplied accessories.</p> <p>Use only mild cleaning agents.</p> <p>Do not insert any objects into the device openings not intended for this purpose, since otherwise electronic faults can result.</p> <p><b>When operating the device, comply with the general accident prevention regulations.</b></p> <p>Do not operate the ehb WLANdongle within range of strong electromagnetic fields.</p> <p>Note and comply with the temperature specifications given in the “Technical Data” chapter.</p>
<b>Storage</b>	<p>A decommissioned ehb WLANdongle must be stored under the conditions specified.</p>
<b>Installation</b>	<p>Observe the notes of the manufacturer of the plugs and cable harnesses when installing the device.</p>
<b>Shipping</b>	<p>The unit is to be shipped either in its original packaging or in suitable sturdy alternative packaging.</p> <p>Improper packaging is regarded as <i>negligence</i> and results in any claims for repair under guarantee being forfeited.</p>
<b>Maintenance</b>	<p>The ehb WLANdongle equires no maintenance and no special upkeep over its entire service life.</p>
<b>Opening the ehb WLANdongle</b>	<p>The ehb WLANdongle does not contain any parts that can be serviced, replaced or repaired by the end customer.</p> <p>Please note that any unauthorised opening of the device will lead to the loss of warranty.</p>



#### ATTENTION

Never use a high-pressure cleaner to clean the device.

It has to be clearly communicated to personnel that high-pressure cleaning will lead to damage and result in the guarantee being rendered null and void.

## 2.2 Qualification of personnel

Only qualified and trained personnel may connect or install the device. The personnel must have the following qualifications:

- Special knowledge and experience of handling electrical equipment.
- Instruction and operating authorisation from the person responsible for safety.
- Knowledge of relevant standards, regulations, accident prevention regulations and operating conditions for safe application.

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### NOTE

- Always carry out work on the device according to the existing specifications and legal provisions.
  - The legal provisions are different depending on the operation site.
  - Knowledge of relevant standards, regulations, accident prevention regulations and operating conditions for safe application.
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## 2.3 Intended use

The ehb WLANDongle connects machine controllers with a wireless network. The ehb WLANDongle is directly mounted on a machine or electrical cabinet. It allows for machine access via WLAN (WiFi).

The device is only meant for use in machines and electrical cabinets. It is used for allowing machine access via WLAN (WiFi). This also applies to accessory and parts that belong to the purchased parts package in conjunction with the technical specification. Especially the technical data and information about the permitted scope of use (mounting, connection, environmental and operation conditions) are relevant in this context.

Intended use also includes observing the operating manual.

### 3 Technical data

Parameter	Conditions	Values/Feature			Comments
		Min.	Typ	Max.	
Supply voltage UB		9V	12 – 24V	30V	
Current consumption at UB 19V	Standby/max		<40mA (Standby) <90mA (max)		The current consumption during operation depends on the transmitting power
Operating temperature Storage temperature		-40°C -40°C		+65°C +85°C	
Humidity (non-condensing)	96h		93%		EN 600068-2-78: humid heat, +40 °C
Vibration	5 – 500Hz		2g		IEC 60068-2-6:2007
Shock	9x, 11ms (half-sine)		3g		IEC 60068-2-27:2008
Dimensions	Housing LxBxH Cutout Ø	41 x 67,6 x 67,6mm 50,5 mm			With housing without accessories
Weight		ca. 82g			Without accessories
Fastening		M50-Schraube und Mutter			
Material		PBT glasfaserverstärkt; PC-ABS			
Anschluss Gesamtlänge		20cm			Push-in Ethernet-Cable / RJ45 Socket
Degree of protection	Protected against dust, splash water	IP67			

Tab. 2: Technical data



## 4 Functional description

### 4.1 Network

You receive a WiFi access point brand HMS AWB2000-B pre-configured by ehb.

Network (SSID): ehb SMARTdevice\_UVWXYZ

(UVWXYZ resembles the last six characters of the serial number on the device)

WPA2 Passkey: ehbSMART1!

### 4.2 Connection

The ehb WLANdongle is connected to a network ready device e.g. an ehb SMARTdisplay 43 (ehb5442) via the RJ45 network cable.

The connection to a WiFi-ready end device is enabled after power on.

### 4.3 Error Correction

Error	Retification
No network visible.	Supply voltage not switched on.

## 5 Decommissioning

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### NOTE

- Decommission the device according to the applicable local regulations and laws..
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### 5.1 Disposal



#### Note concerning environmental protection

##### Risk of environmental damage

Improper disposal may have an environmental impact.

- Observe the local regulations and legal provisions for disposal.
-

## 6 Maintenance

### 6.1 Maintenance of ehb WLANDongles

The ehb WLANDongle is maintenance-free.

#### Cleaning



#### ATTENTION

Never use a high-pressure cleaner to clean the device.  
High pressure cleaning causes damage to the device.

### 6.2 Repair

Should the device require repair work, please return it to:

**ehb electronics gmbh**  
**Hans-Böckler-Str. 20**  
**30851 Langenhagen**  
**GERMANY**

Please make sure that you include a written fault description. This will facilitate the work of the ehb electronics gmbh service department and ensure faster return of your ehb WLANDongle.

Alternatively you can use our online service for the returning of devices:

**[www.ehbservice.de](http://www.ehbservice.de)**

#### NOTE

ehb electronics GmbH assumes liability only for the proper execution of services and the correct characteristics of the materials used.

Any further claims such as for loss of profit and for direct and indirect consequential damages such as loss of data are excluded.

#### ATTENTION

Damages arising from improper packaging of the device for shipping and/or unauthorised intervention will invalidate the guarantee.

## 7 Documentation information and history

<b>Projekt:</b>	ehb WLANdongle
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