

Operating and installation instructions

BlueCool Connect

Interface



English

Table of Contents

1	About this document.....	3
1.1	Purpose of this document	3
1.2	Using this document.....	3
1.3	Use of symbols and highlighting.....	3
1.4	Warranty and liability	3
1.5	Used abbreviations	3
1.6	Measurements	3
2	Safety	3
2.1	General.....	3
2.2	Intended use	3
2.3	Qualifications of installation personnel.....	3
3	Scope of Delivery	3
4	Introduction	4
5	Configuration overview.....	4
6	Installation	5
6.1	Hardware Installation	5
6.2	Software installation.....	5
7	App navigation	5
7.1	Start menu BlueCool Connect	5
7.2	Settings menu BlueCool Connect.....	6
7.3	Operating a unit	6
7.4	Settings menu BlueCool AC unit.....	7
7.5	Creating new groups	7
7.6	Operating a group	8
7.7	Setting the Timer.....	8
7.8	Adding a new BlueCool Connect	8
8	Error codes	9
9	Technical data	9
10	CE-declaration of conformity	9
11	Annex.....	10

1 About this document

1.1 Purpose of this document

The Operating and Installation Instructions (OI/II) are an integral part of the product and contain all the information required to ensure correct and safe operation and installation.

1.2 Using this document

- Read the installation instructions **before** operating or installing the unit.

1.3 Use of symbols and highlighting

Sym- bol	Explanation
►	Action (one or more steps)
✓	What to do before the action
	Advisory note/tip for usage
	Info in separate document(s)
	Risk of property damage
	Risk of severe/mortal injury

1.4 Warranty and liability

Webasto shall not assume liability for defects or damage that are the result of the installation and operating instructions being disregarded. This liability exclusion particularly applies to:

- Installation by untrained personnel
- Improper use
- Repairs not carried out by a Webasto service workshop
- Use of non-genuine parts
- Conversion of the unit without permission from Webasto
- Mechanical damage to the equipment
- Non-compliance with inspection and maintenance instructions

1.5 Used abbreviations

Abbr.	Description
ABYC	American Boat and Yacht Council
BCC	BlueCool Connect
CAN (bus)	Controller Area Network (bus)
LAN	Local Area Network
NMEA	National Marine Electronics Association

1.6 Measurements

 **NOTE**
All measurements are in mm, unless stated otherwise.

2 Safety

2.1 General



CAUTION

Do not carry out work on a live system.



CAUTION

Be aware that BlueCool Connect (BCC) is remote-control application; BCC can start remotely units such as heaters, air conditioner and fans. Make sure you do not inadvertently start systems, causing danger to people on board the vessel and damage to the vessel.

2.2 Intended use

The BlueCool Connect is an interface unit between the BlueCool A/C and its control elements.

2.3 Qualifications of installation personnel

Installation personnel must be qualified to work on technical systems.

3 Scope of Delivery

Description	Qty
 BlueCool Connect Interface box	1
 Antenna with a 3 m long cable	1
Identification labels	2
 Quick Start Guide	1

- Unpack all components and check the delivery for completeness and for damage.



4 Introduction

The BlueCool Connect interface box converts CAN-bus signals into:

- WiFi signals, for local access to your local BlueCool A/C units by smartphone and tablet.
- Mobile (Telephone) Network signals, for remote access to your BlueCool A/C units by smartphone, tablet, and computer.
- Ethernet signals, for connection to multi-functional displays, such as Garmin OneHelm™.
- NMEA2000 signals, for standardized integration into your vessel's Monitoring, Alarm and Display System.

USB ports are currently not supported. The NMEA 2000 bus has not yet been implemented.

Access through the Web Expert Tool provides diagnosis, troubleshooting, technical support based software updates and real time monitoring.



Fig. 1

5 Configuration overview

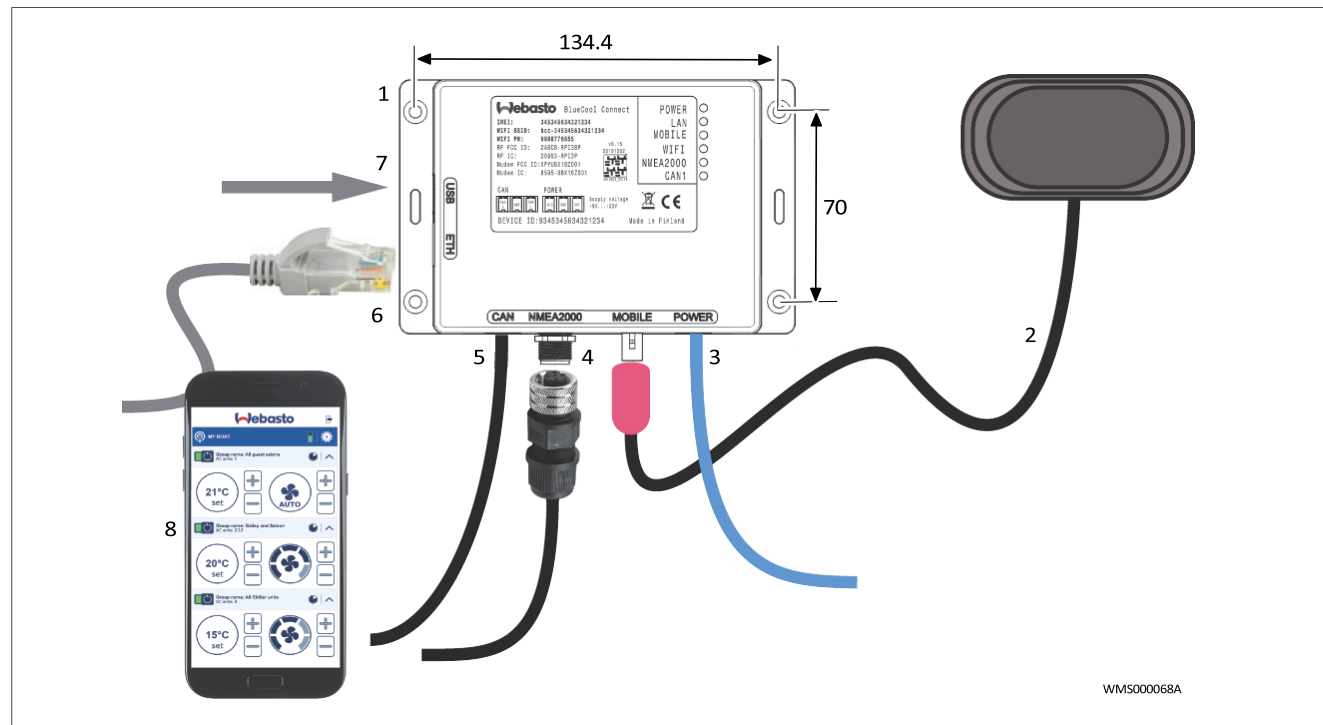


Fig. 2

- | | |
|----------------------------------|----------------------|
| 1 BlueCool Connect interface box | 5 CAN bus |
| 2 Antenna | 6 LAN Ethernet cable |
| 3 Power cable | 7 USB ports |
| 4 NMEA 2000 bus | |

6 Installation

6.1 Hardware Installation

Unpack all components and check for completeness and damage. See also: Fig. 2)



NOTE

Check the area behind the drilling location to prevent damage to cables, hoses and pipes.

1. Find a suitable location for BlueCool Connect (BCC) interface box (1), taking a suitable location for the antenna (2) into consideration. You have a 3 m long cable to connect the antenna to the BCC interface box.
2. Drill the holes for mounting the BCC interface box.
3. Position the BCC interface box so that any condense water inside can exit the box; for instance by pointing the connectors towards the floor.
4. Mount the BCC interface box, using suitable screws, or bolts and nuts.
5. Connect the power cable (3), securing the cables in such a way that their connectors cannot be pulled out under any circumstances. You must do this to fulfill ABYC (American Boat and Yacht Council) requirements.
6. For more connection details, see the label on the box for connections.
7. Connect the CAN bus (5). See the label on the box for the connections.
8. Connect the NMEA (National Marine Electronics Association) 2000 bus (4). Note that the NMEA 2000 bus is not available in the first release.
9. Connect the LAN (Local Area Network) Ethernet cable (6).
10. Find a suitable location for the antenna (2), making sure not to position the antenna on a metal surface, and then mount the antenna securely.
11. Connect the antenna to the BCC interface unit using the 3 m long antenna cable.



NOTE

You must connect the antenna even if you do not use mobile connectivity; it may damage the antenna amplifier if you use it without the antenna being connected.

The USB ports (7) on the BCC interface box are currently without function but live at 5 V.

There is a reset button on the BCC interface box to restart it.

6.2 Software installation

An app enables you to control your BlueCool Connect from your **iOS** or your **Android** device.

Example of the app on a mobile device

To install the app:

1. Verify if your mobile device (smartphone, tablet, and so on) is connected to a network (an internet connection must be available). Alternatively scan the appropriate QR code below.
2. To access the relevant app store:
Browse to the **Apple App store** <https://blue-cool.webastoconnect.com/apps/ios> and search for "BlueCool Connect".
- or -
Browse to the **Google Play store** <https://blue-cool.webastoconnect.com/apps/android> and search for "BlueCool Connect". Alternatively scan the appropriate QR code below.

cool.webastoconnect.com/apps/android and search for "BlueCool Connect". Alternatively scan the appropriate QR code below.



Fig. 3 Use the Apple QR code above on the left, or the Android QR code above on the right.

To create a Webasto account:

1. Follow the on-screen instructions to create a Webasto account.
2. Log in after the account has been created.
3. Enter the relevant Device-ID to add a BlueCool Connect device to the app.

7 App navigation

7.1 Start menu BlueCool Connect



Fig. 4

Screen contents

1. **Logout**
2. **Settings**
See chapter 7.2, "Settings menu BlueCool Connect" on page 6

3. **Show / hide groups**

(this option is only shown when one or more groups have been created) see chapter 7.5, "Creating new groups" on page 7

4. **Expand / Collapse unit controls**5. **Unit settings**

See chapter 7.4, "Settings menu BlueCool AC unit" on page 7

6. **Timer**

See chapter 7.7, "Setting the Timer" on page 8

7. **Add a new BlueCool Connect**

See chapter 7.8, "Adding a new BlueCool Connect" on page 8

8. **On / Off switch for units / groups**9. **Antenna icon** and your BlueCool network name

See chapter 7.2, "Settings menu BlueCool Connect" on page 6

If the mobile connection is available, then the **antenna icon (9)** is shown.

If the device is only connected via Ethernet, then the **Ethernet connector icon (10)** is shown.

If both the mobile and the Ethernet connection fail, no icon is shown.

The BCC is a remote-controlled application. To avoid the BCC being switched on accidentally, select the logout icon (1) to log out. Always log out in your absence.

7.2 Settings menu BlueCool Connect



Fig. 5

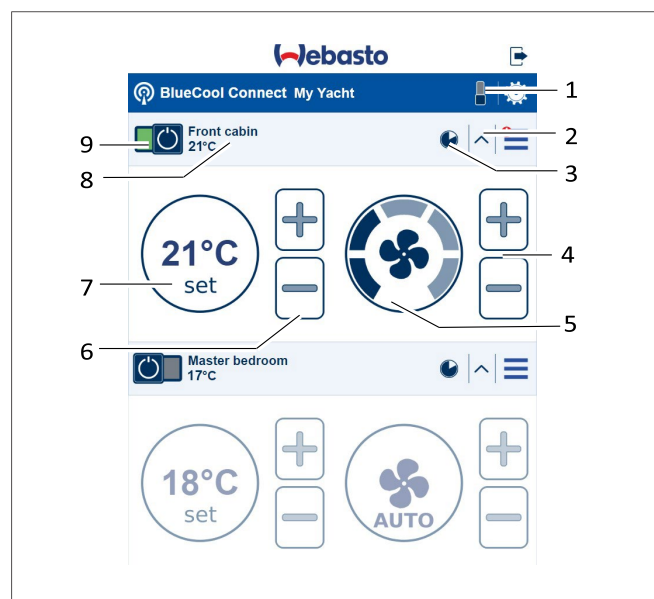
This menu enables you to access the settings options of the BlueCool Connect device. You can only access all options if your BlueCool Connect device is connected to a mobile network or another source of internet access. For connection options, see the "Global Devices" option in the start screen of the app.

Function	Description
Subscription	Check the expiration date (X) Buy or renew a subscription (X)

Function	Description
Info	Check the current version of BlueCool Connect firmware (X)
Settings	Change the name of the BlueCool Connect device
Group management	Create a group of A/C units to operate these simultaneously
Device owners	View or delete device owners (X), see chapter 7.8, "Adding a new BlueCool Connect" on page 8
Language	Select the screen language
Administration	Access the Web Expert Tool through an internet browser (X)

Options that are not shown in the menu when connected locally via ad-hoc WiFi are marked (X).

7.3 Operating a unit



Screen contents:

1. **Toggle for units / groups**
2. **Expand / Collapse** the Unit control panel
3. **Unit timer**
4. **Blower control buttons** / Auto setting
5. **Blower settings display**
6. **Temperature control buttons**
7. **Temperature setting display**
8. **Actual cabin temperature**
9. **On / Off switch for units / groups**

The start menu shows all units in your BCC network. You can control units individually and by group.

- Select individual on / off sliders (9) to switch on / off a single unit or group.
- Select the drop-down arrows (2) to open the temperature and blower control panel.
- The unit name and current temperature are shown on the top left, next to the on/off slide.
- Click the clock icon (2) to automatically switch the unit on / off by timer. See chapter 7.7, "Setting the Timer" on page 8

- Click the [+] and [-] icons (6) to set the cabin temperature.
- Click the [+] and [-] icons (4) to adjust the blower settings.

7.4 Settings menu BlueCool AC unit



Fig. 6

The settings menu controls the settings of each A/C unit

Function	Description
Info	– View the connected A/C unit type – View the CAN-Bus address of the connected A/C unit. The CAN-Bus address can be changed via the BlueCool MyTouch display or a USB connection to the A/C unit with the BlueCool Expert Tool. (after the CAN-Bus address has been changed, re-start to remove non-used devices from the start screen) – View firmware of the connected A/C unit – View cold water temperature on chiller or air handlers (optional)
Settings	– Change the A/C unit name – Change operation mode of the unit – Change temperature unit from display in °C to °F
Dehumidification	– Select the number of dehumidification cycles per 24 h – Select duration of heating time – Select duration of cooling time – See the installation instructions of the A/C unit for more information.
Error Code	Check the latest error code. Error codes are displayed if the system is not working properly

7.5 Creating new groups

Creating a group of units enables you to operate and control the units simultaneously.

- To create a group, select "Create groups" from the Settings menu.
- To remove a group, select the group that you want to remove from the Settings menu. See chapter 7.2, "Settings menu BlueCool Connect" on page 6.

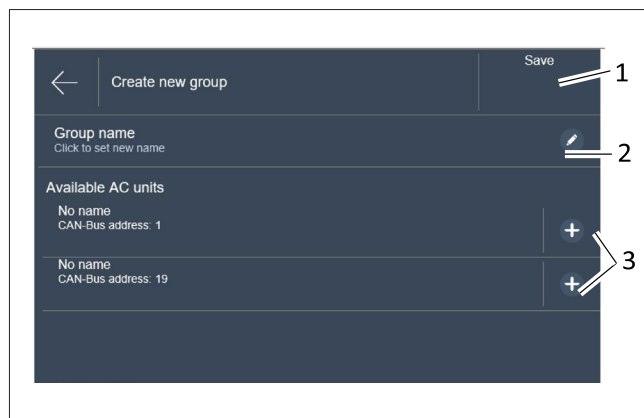


Fig. 7

Screen contents:

1. The **Save** button saves the created group with its units.
2. The **Group name** field enables you to provide an appropriate group name.
3. The **A/C units** fields enable you to add units to the group.

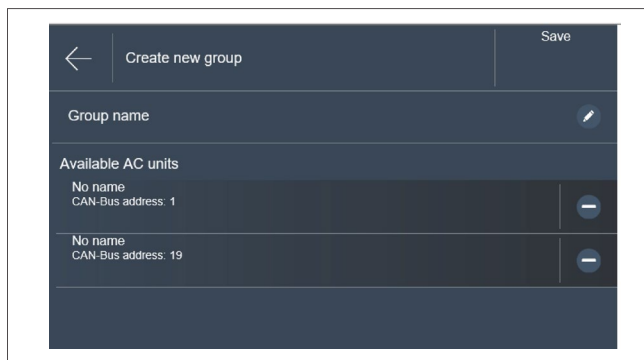


Fig. 8

1. Tap the [+] icon on the right of the unit name to add the unit to the group.
 2. When you add a unit to a group, the [+] icon changes from [+] to [-].
 3. Tap the [-] icon on the right of the unit name to remove any unit added in error from the group.
 4. When you have finished, name the group and save it.
- After you create the first group, the BCC adds a toggle switch for groups on the start screen. See chapter 7.2, "Settings menu BlueCool Connect" on page 6 and chapter 7.3, "Operating a unit" on page 6.

Switch from unit view to group view to manage a group. In this mode you can Start / Stop all grouped units, activate the timer, and set temperatures and blower speeds.

The BCC does not display actual cabin temperatures because you cannot view unit settings in group view, to display cabin temperatures and other unit settings, you must first select unit view.

7.6 Operating a group

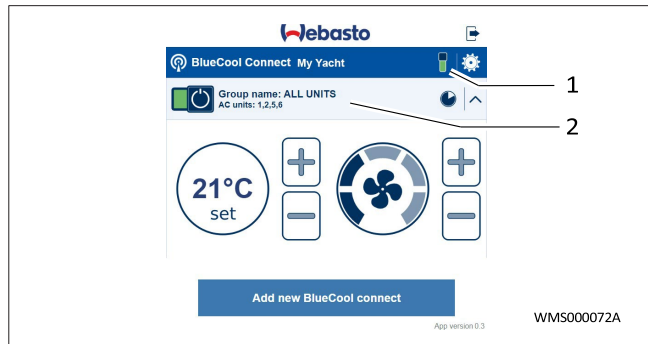


Fig. 9

Screen contents:

1. **Toggle for showing / hiding groups in “On”**
2. **Group information**

The operating display for groups looks similar to that for units. Beside the group name, group information shows which units are part of the group.

7.7 Setting the Timer

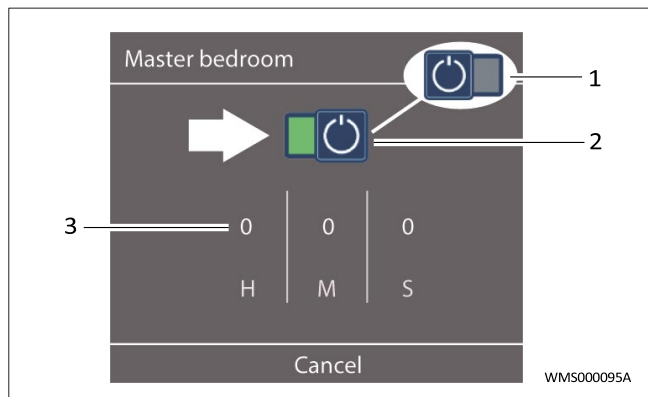


Fig. 10

You can set a timer to switch a *group* or *unit* **on** or **off** at a given time.

1. Tap the timer symbol to open the timer menu.
2. Use the on / off slide in *off* position (1) to switch the timer *on*.
3. Use the on / off slide in *on* position (2) to switch the timer *off*.
4. Swipe up / down over a digit (3) to adjust the timer. The timer counts in hours, minutes and seconds from the time it is switched on.

Example:

To set the “Master bedroom” unit to come on at 5:45 PM (17:45) when it is 3:00 PM (15:00), set the timer to 2 H(ours), 45 M(inutes) and 00 S(econds).

7.8 Adding a new BlueCool Connect

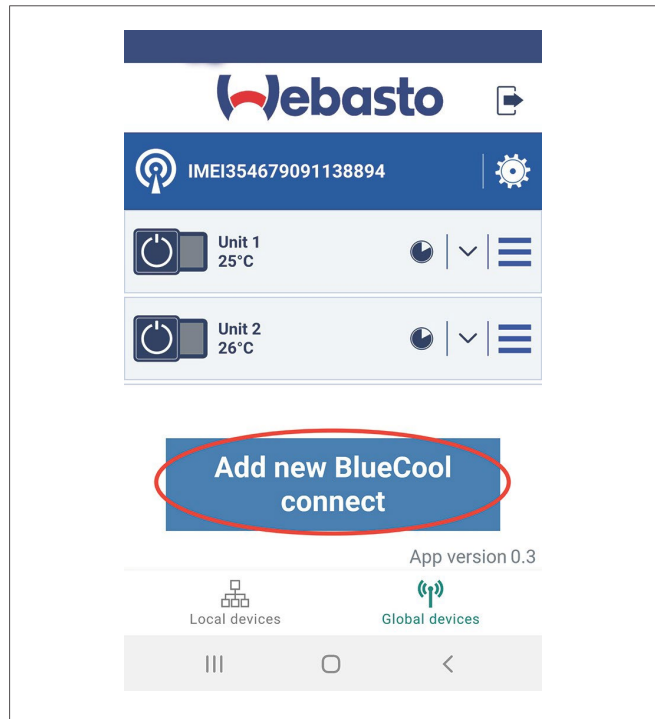


Fig. 11

The BlueCool Connect (BCC) app enables you to operate BCC devices installed on different boats.

To add another BCC interface to the app, tap the option “Add new BlueCool Connect” in the initial start menu.

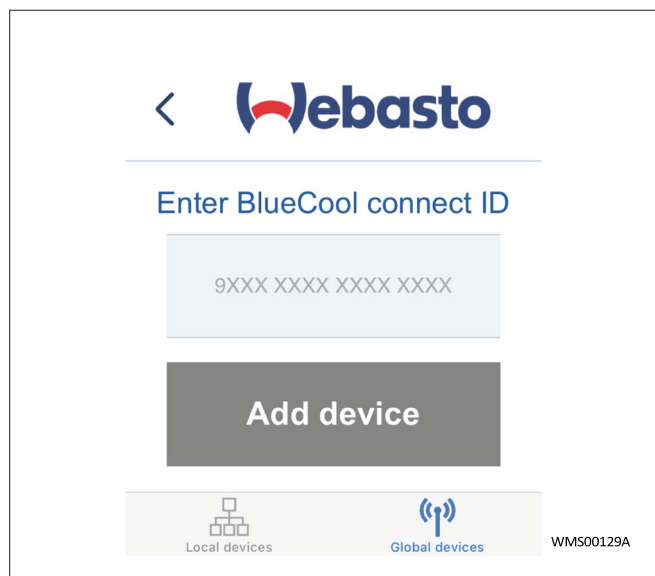


Fig. 12

In the next screen, first enter the ID of the BlueCool Connect device that has to be added. Next, tap “Add device” and follow the on-screen instructions.

8 Error codes

Code	Probable cause	Probable solution
A10	Device is not responding	

The error codes depend on the A/C units used. Please refer to the installation manual for the installed A/C unit's error codes, explanation and solution.

9 Technical data

Parameter	BlueCool Connect
Operating voltage range [V]	9 – 33
Power consumption [W]	13.5
Input	CAN
Output	Wi-Fi Mobile (Telephone) Network LAN - Ethernet NMEA2000
Dimensions [mm]	140 x 104.9 x 33.8 (L x B x H)
Weight [kg]	0.34
Operating temperature [°C]	-40 - +80

10 CE-declaration of conformity

The BlueCool Connect was developed, manufactured, tested and supplied in accordance with the relevant directives, regulations and standards for safety, EMC and environmental compatibility.

Webasto declares that the product BlueCool Connect was manufactured and delivered in accordance with the directives and regulations.

You can find the complete CE Declaration of Conformity in the download area at <https://dealers.webasto.com>.

11 Annex

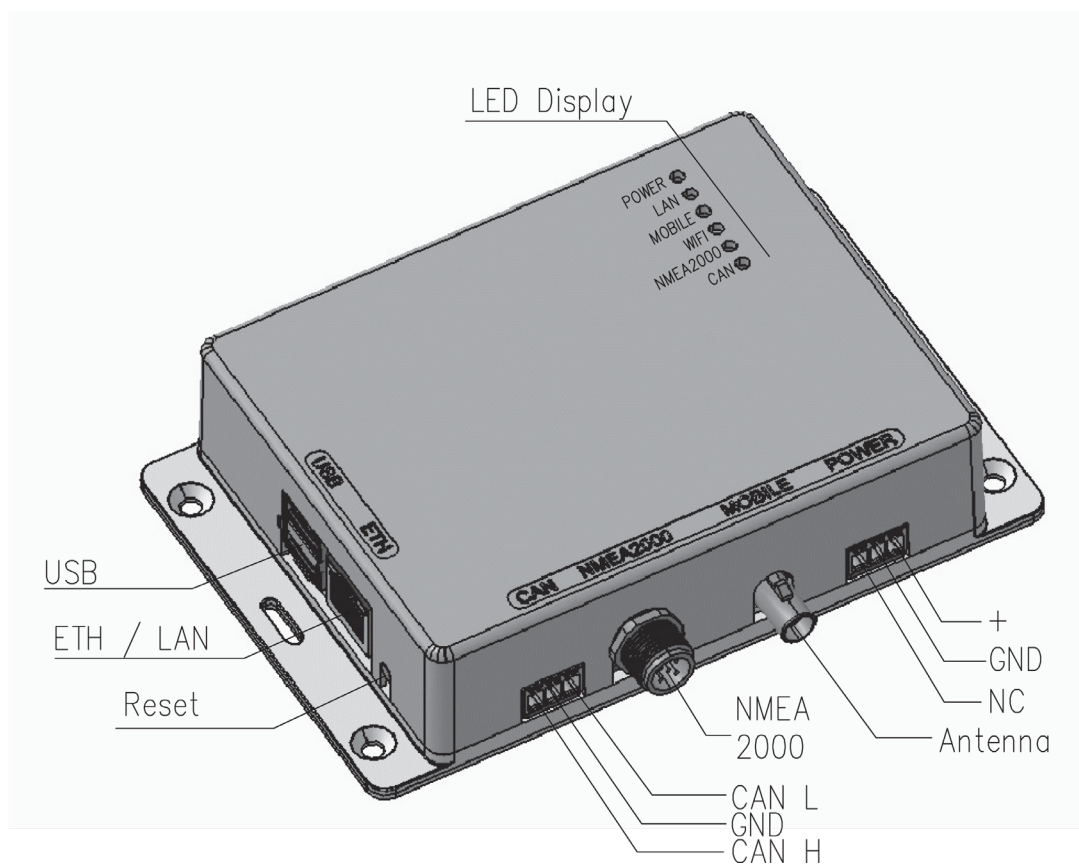
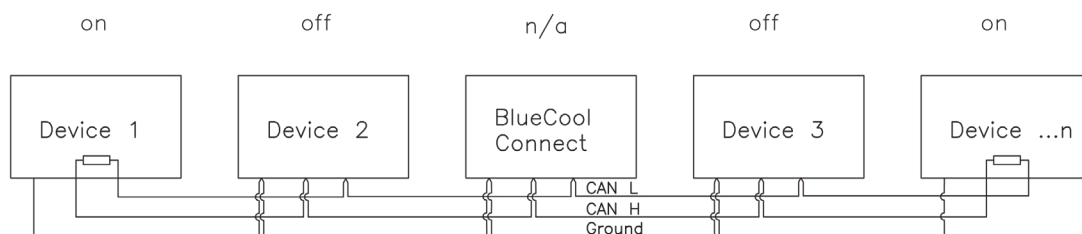


Fig. 13

Terminator switch piggy back:



Device 1...n can be: BlueCool A-Series
 Ultimate
 C-Series
 P-Series
 S-Series
 V-Series

Note: The BlueCool Connect should not be placed on the end of the CAN bus.
 There is no possibility on the BlueCool Connect to make a termination.

Fig. 14

These are the original instructions. The English language is binding.

You can request your language if it is missing. The telephone number of each country can be found in the Webasto service centre leaflet or the website of the respective Webasto representative of your country.

Webasto Thermo & Comfort SE
Postfach 1410
82199 Gilching
Germany

Company address:
Friedrichshafener Str. 9
82205 Gilching
Germany



2510264A

www.webasto.com

