


Data sheet		 Messtechnik GmbH & Co. KG
<i>IBR Bluetooth-USB receiver</i>		
Doc. no. : D2MF122 155	Rev. : 06/24	

The IBR Bluetooth-USB receiver is compatible to gauges with integrated Bluetooth by Sylvac, Trimos and Bowers.

The gauges have to be set to “Simple” mode (→ gauge menu “bt.CFG” = “Simple” / see manual of the gauge).

The IBR Bluetooth-USB receiver allows the connection of up to 8 Bluetooth gauges.

The gauges are paired to the receiver via the PC software “USB-BLE-Config.exe”
(see next page).

For the collection of measuring values, the IBR Bluetooth-USB receiver has to be connected to an IMB-uh1 module.

Connected directly to the USB port of the PC, the measuring value collection is not supported.



Designation :	Art. no.
Bluetooth-USB receiver	F122 155

Characteristics :

Housing	Aluminium and plastic side part
Dimensions W x H x L / Weight	14 x 6.5 x 18 mm / approx. 11 g
Working temperature range	0...45 °C
Storage temperature range	-20...80 °C
Power consumption via IMBus	< 44 mA
Radio protocol	Bluetooth v4.0 Low Energy (BLE)

IMPORTANT INFORMATION :

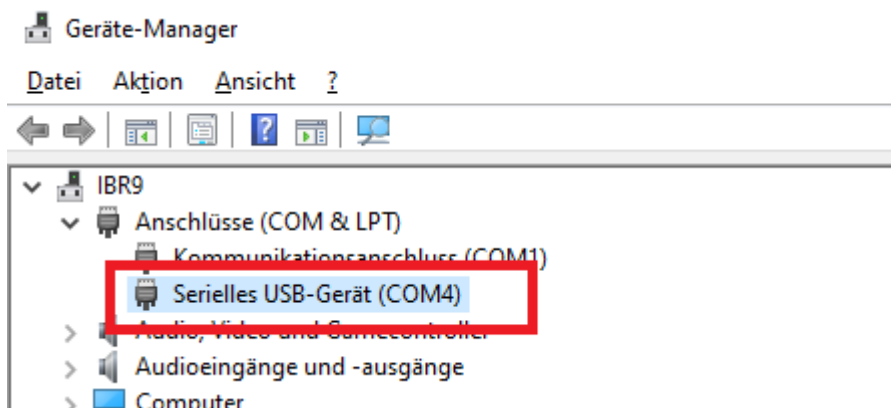
Please read the operating instructions for the gauge first.
Knowledge of how to operate the gauges is a prerequisite for the following document.

The appearance of the IBR Bluetooth-USB receiver is identical to the appearance of the Sylvac Bluetooth-USB receiver. But the IBR Bluetooth-USB receiver has a different firmware, so the two Bluetooth-USB receivers are not compatible.

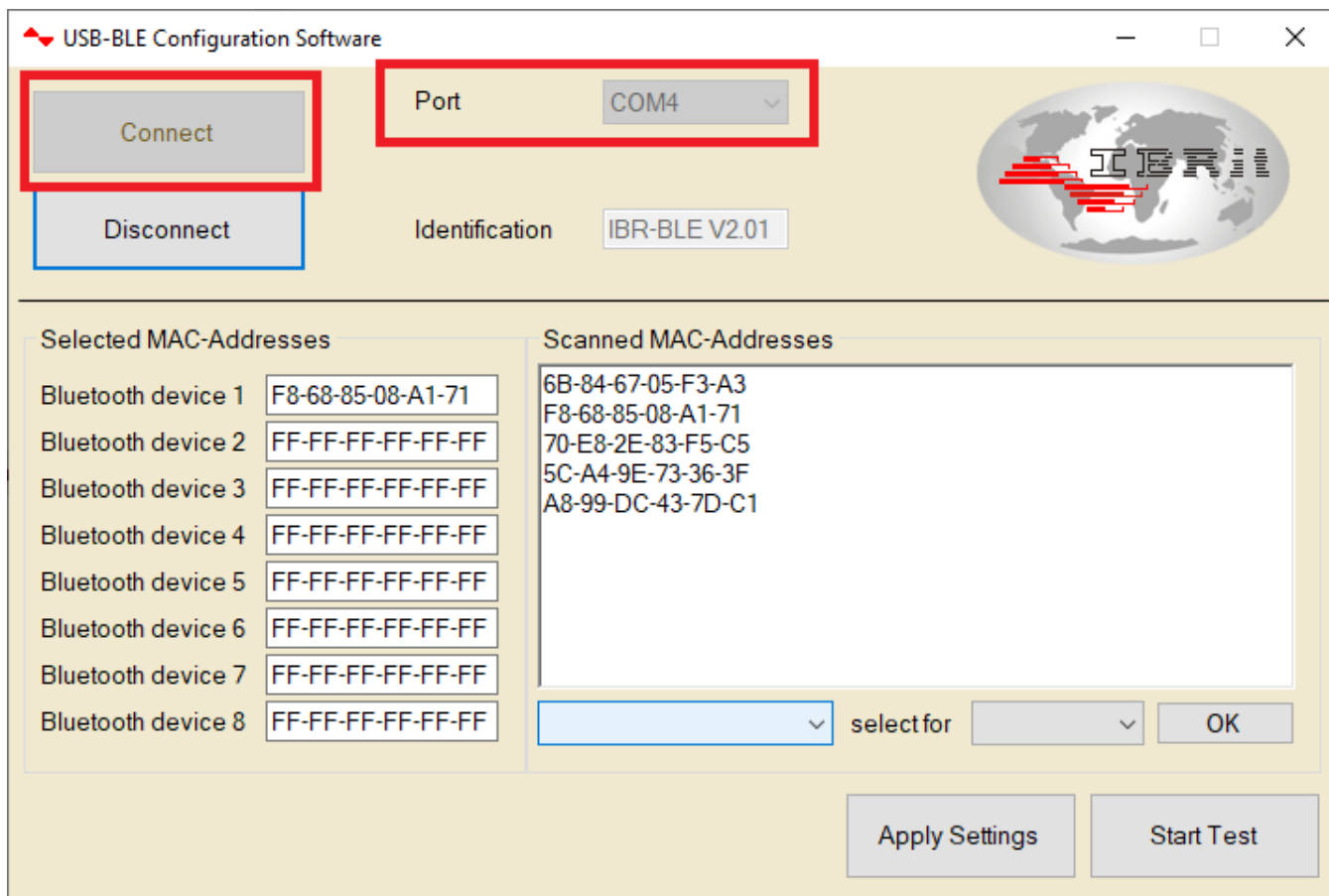
The IBR Bluetooth-USB receiver has the laser inscription “IBR”, so it can be recognised.

The gauges are paired to the receiver via the PC software “USB-BLE-Config.exe”.

To do this, please connect the Bluetooth-USB receiver to a USB port of a Windows 7...11 PC.
A COM port number is assigned to the Bluetooth-USB receiver :



Select this COM port number in the PC software “USB-BLE-Config.exe” and click the “Connect” button :



In the column “Scanned MAC-Addresses”, all detected Bluetooth gauges in Pairing / Advertising mode are listed.

The MAC address of the gauge can be displayed in the menu “bt” (see gauge manual).

In the column “Selected MAC-Addresses”, the up to 8 gauges assigned to the Bluetooth-USB receiver are listed. “FF-FF-FF-FF-FF-FF” means that no gauge is assigned.

So, in the example above, the Bluetooth-USB receiver only receives data from the gauge with MAC address F8-65-85-08-A1-71 on its address “Device 1”. Currently, no additional gauges are assigned.

The following operating elements can be used to assign additional gauges (in this example to address "Device 2"):

USB-BLE Configuration Software

Connect


Disconnect

Port

COM4

Identification

IBR-BLE V2.01



Selected MAC-Addresses

Bluetooth device 1

F8-68-85-08-A1-71

Bluetooth device 2

FF-FF-FF-FF-FF-FF

Bluetooth device 3

FF-FF-FF-FF-FF-FF

Bluetooth device 4

FF-FF-FF-FF-FF-FF

Bluetooth device 5

FF-FF-FF-FF-FF-FF

Bluetooth device 6

FF-FF-FF-FF-FF-FF

Bluetooth device 7

FF-FF-FF-FF-FF-FF

Bluetooth device 8

FF-FF-FF-FF-FF-FF

Scanned MAC-Addresses

51-6E-CB-BF-C1-47

79-06-9D-16-55-D4

64-87-A8-CD-9A-CD

A8-99-DC-43-7D-C1

F8-68-85-08-A1-71

DB-0E-6B-97-32-F3

79-06-9D-16-55-D4

select for

Device 1

Device 2

Device 3

Device 4

Device 5

OK

Apply Settings

Start Test

USB-BLE Configuration Software

Connect


Disconnect

Port

COM4

Identification

IBR-BLE V2.01



Selected MAC-Addresses

Bluetooth device 1

F8-68-85-08-A1-71

Bluetooth device 2

79-06-9D-16-55-D4

Bluetooth device 3

FF-FF-FF-FF-FF-FF

Bluetooth device 4

FF-FF-FF-FF-FF-FF

Bluetooth device 5

FF-FF-FF-FF-FF-FF

Bluetooth device 6

FF-FF-FF-FF-FF-FF

Bluetooth device 7

FF-FF-FF-FF-FF-FF

Bluetooth device 8

FF-FF-FF-FF-FF-FF

Scanned MAC-Addresses

51-6E-CB-BF-C1-47

79-06-9D-16-55-D4

64-87-A8-CD-9A-CD

A8-99-DC-43-7D-C1

F8-68-85-08-A1-71

DB-0E-6B-97-32-F3

79-06-9D-16-55-D4

select for

Device 2

OK

Apply Settings

Start Test

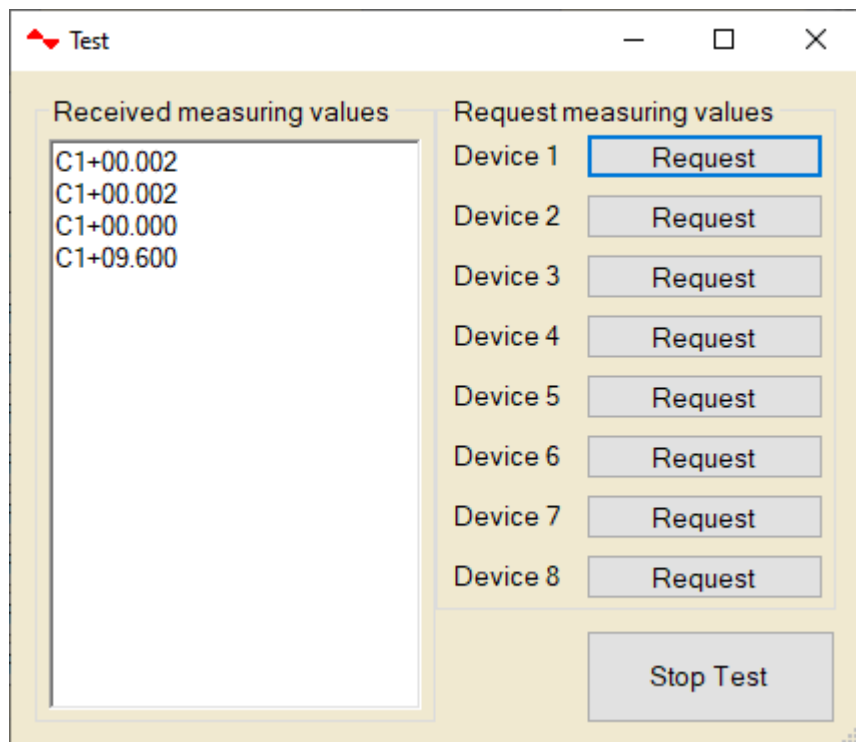
Page 3 of 5

www.ibr.com

In the main window, the button “Apply Settings” can be used to store the assignment of the 1...8 gauges in the flash memory of the Bluetooth-USB receiver. The first time a connection to a measuring device is established, it takes a few seconds because the Bluetooth settings of the gauge are requested and saved inside the Bluetooth-USB receiver. These settings will be reseted every time “Apply Settings” is executed.

The button “Start Test” can now be used (after clicking the button “Apply Settings”) to open a separate window for testing the assigned gauges.

Measuring values can be sent by pressing the data button of the gauge or they can be requested by clicking the “Request” buttons.



The data string of the measuring values also contains the address information :

“C1” = gauge assigned to address “Device 1”

“C2” = gauge assigned to address “Device 2”

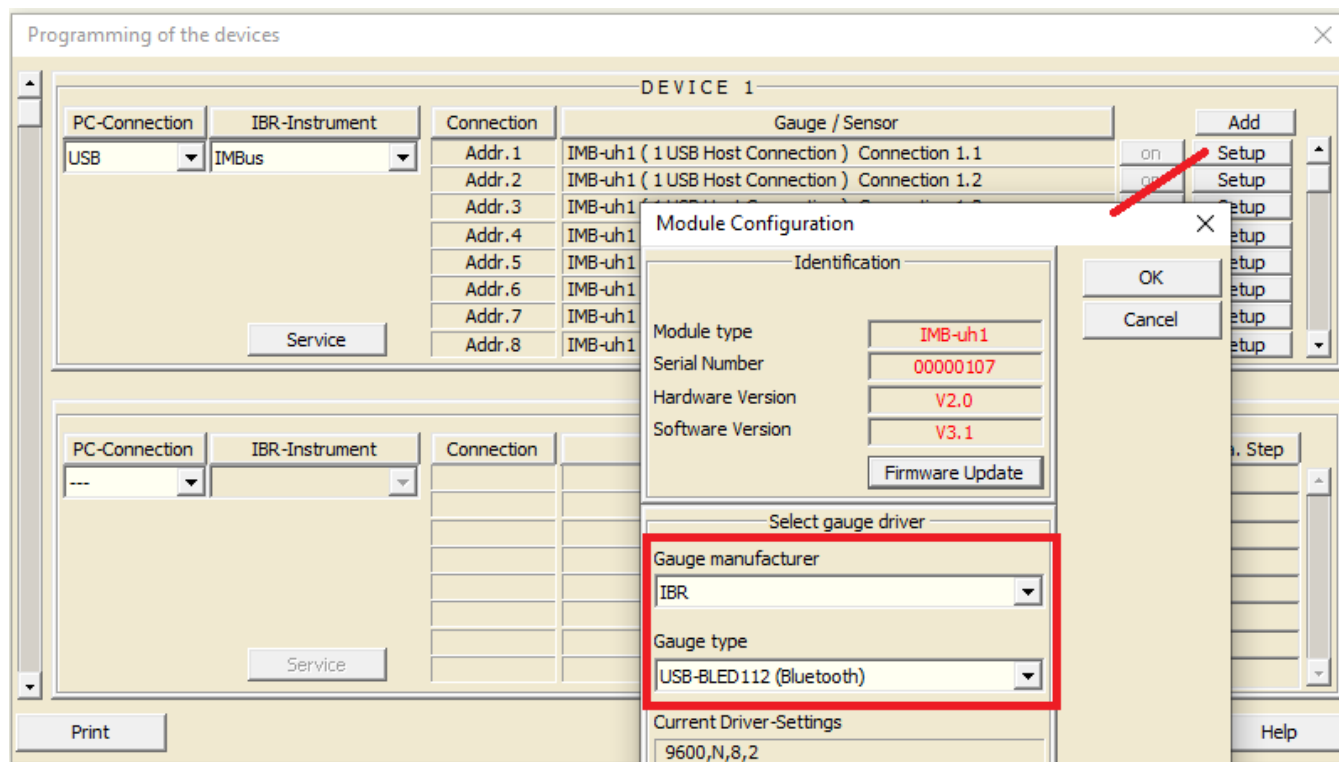
...

“C8” = gauge assigned to address “Device 8”

The button “Stop Test” closes the test window.

The Bluetooth-USB receiver is now fully configured and can be connected to the IMB-uh1 for the measuring value collection (see IMB-uh1 data sheet).

In the IMB-uh1 module, the driver “IBR / USB-BLED112 (Bluetooth)” has to be selected :



Via this driver, the IMB-uh1 provides 8 addresses which correspond to the Bluetooth addresses “Device 1” ... “Device 8”.