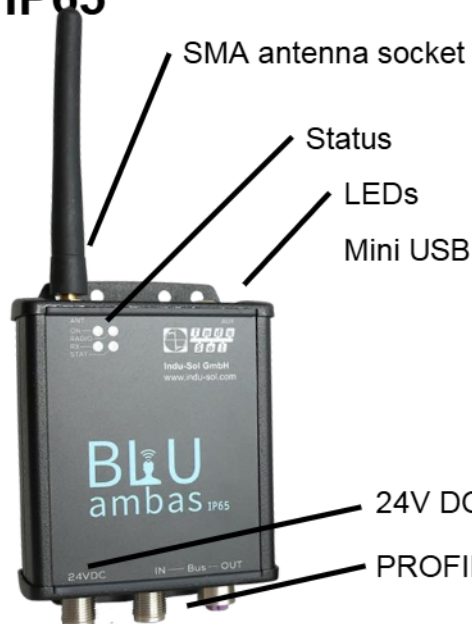
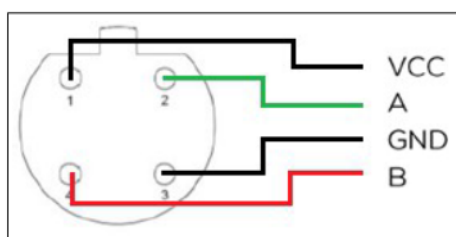


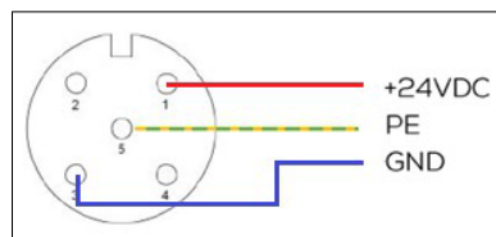
Quick start guide BLUambas® PROFIBUS IP65



LED	Meaning	
ON	Green	Power supply OK
RADIO	Blue	Bluetooth connection established
	Flashing	(Radio slave) Radio master is being searched for
RX	Yellow	Data reception via radio
STAT	Off	PROFIBUS communication works
	red	No PROFIBUS detected
	red flashing	Communication error PROFIBUS slave



Pin assignment PROFIBUS M12 (B coding)



Pin assignment for M12 power supply (A coding)

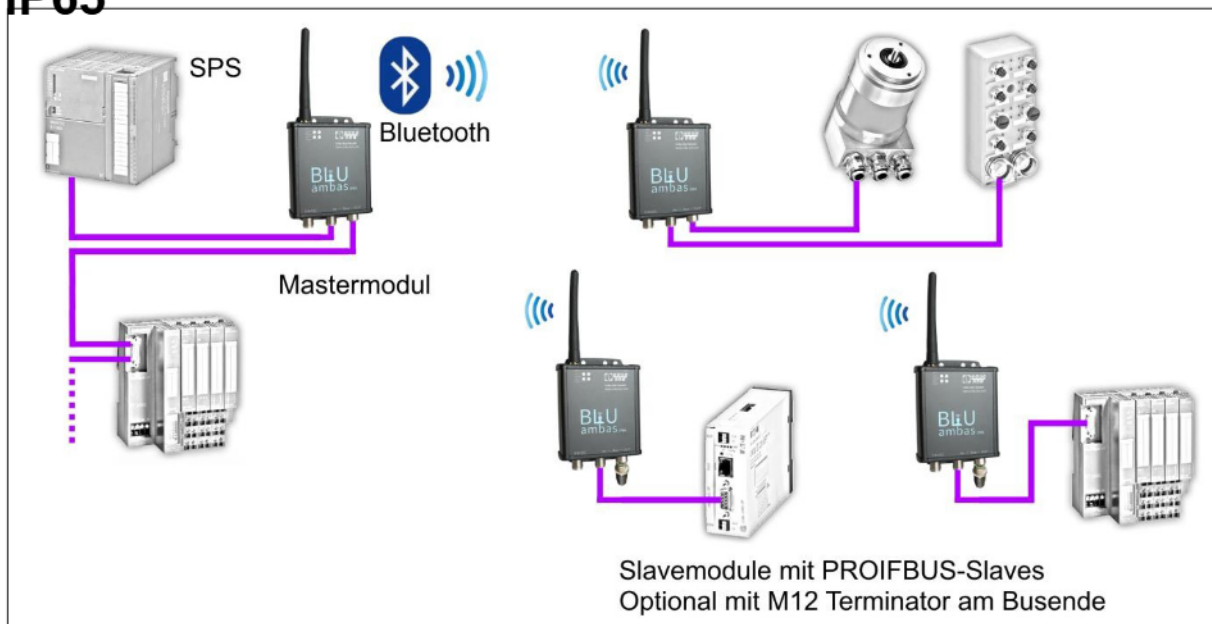
Variant	Number of radio slaves	Number of PROFIBUS slaves	Transfer rate
BLUambas® PB classic	max. 1	max. 4	max. 1.5 Mbit
BLUambas® PB comfort	max. 4	max. 4	max. 1.5 Mbit
BLUambas® PB premium	max. 4	max. 8	max. 1.5 Mbit

Step 1

The BLUambas® is available as a radio master or radio slave. A radio master and at least one radio slave are required for a radio link. Wire the radio master with the PROFIBUS M12 to the PROFIBUS with connection to the PLC. Each radio master can communicate with up to four radio slaves (depending on the variant).

Please note: If the BLUambas® is installed at the end of the segment, an M12 terminator must be screwed onto BUS OUT.

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Step 2:

Now supply the BLUambas® with the required 24V DC power supply. Please observe the polarity. The pin labeled "PE" can be used as a protective earth. Connect the antenna via the SMA socket. The antennas should be installed with a line of sight if possible.

The BLUambas® is preconfigured. All PROFIBUS devices behind the radio link are detected automatically. Further configuration is only necessary if you want to change the standard configuration.

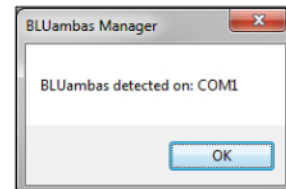
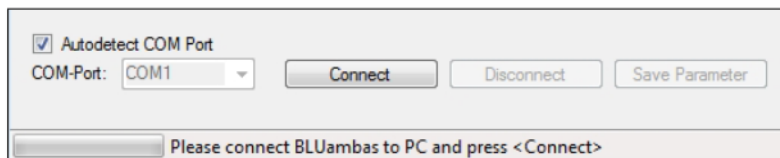
Quick start guide BLUambas® PROFIBUS



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Establishing a connection:

The BLUambas® is configured using the BLUambas® Manager operating software. Supply the device with 24V DC and do not connect it to the PC yet. Install the USB drivers and start the BLUambas® Manager software. Now connect the BLUambas® to the PC using a USB cable. Select "Autodetect COM Port" or set the COM port manually and click "Connect." Confirm the detected COM port with "OK." The selected BLUambas® will then appear on the left side of the directory tree.



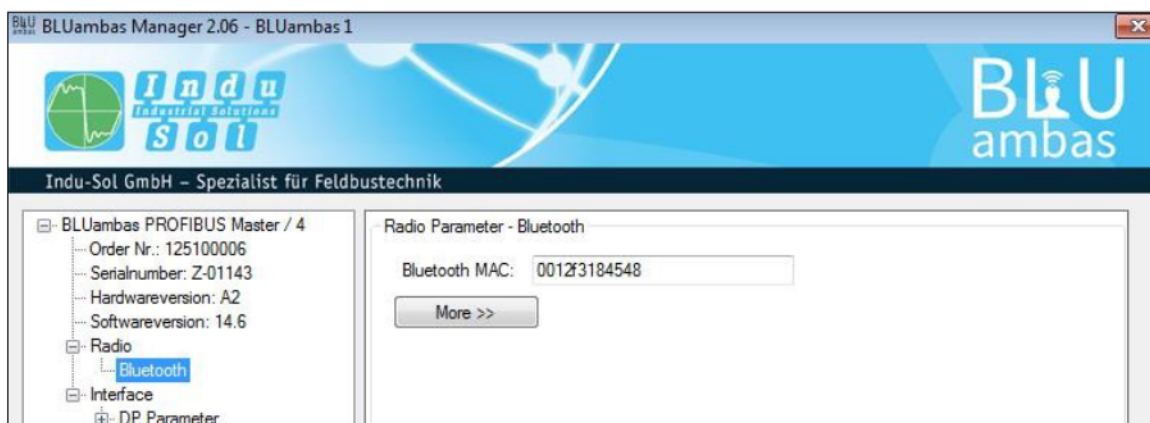
Bluetooth configuration for Funkmaster:

Connect the radio master to the BLUambas® Manager. Configure the station address and partner addresses under "Radio." You can connect the radio master to a maximum of four radio slaves. All devices receive a unique station address. Enter the station addresses of the partners to be connected (BLUambas slave modules) under "Partner addresses."

®"Add."



Make a note of the Bluetooth MAC under "Radio→ Bluetooth." This address must be entered in the partner devices.



Quick start guide BLUambas® PROFIBUS



IP65

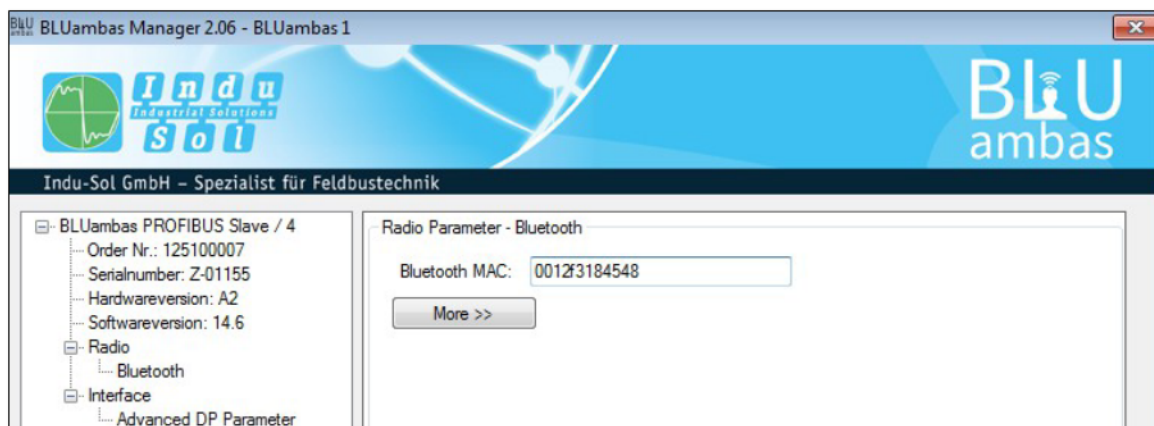
- Click on "Save Parameters."
- Click on "Disconnect."

Bluetooth configuration for radio slave:

Connect the radio slave to the BLUambas® Manager. Configure the station address and partner address under "Radio." You can connect the radio slave to a maximum of one radio master. All devices receive a unique station address. Enter the station address of the BLUambas® radio master to be connected under Partner addresses.



Configure the Bluetooth MAC address of the radio master under "Radio→ Bluetooth." You noted this in the previous step.



- Click on "Save Parameter."
- Click on "Disconnect"
- Repeat this step for all other radio slaves



Quick start guide BLUambas® PROFIBUS

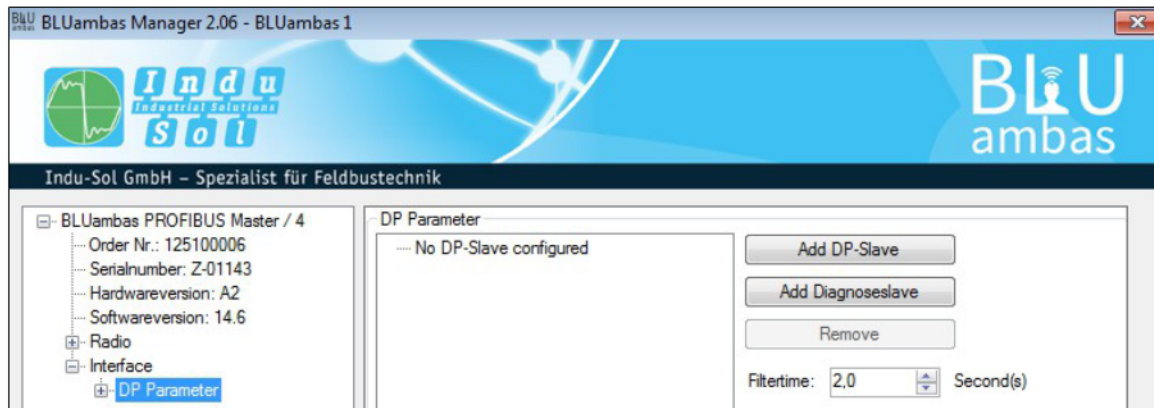


IP65

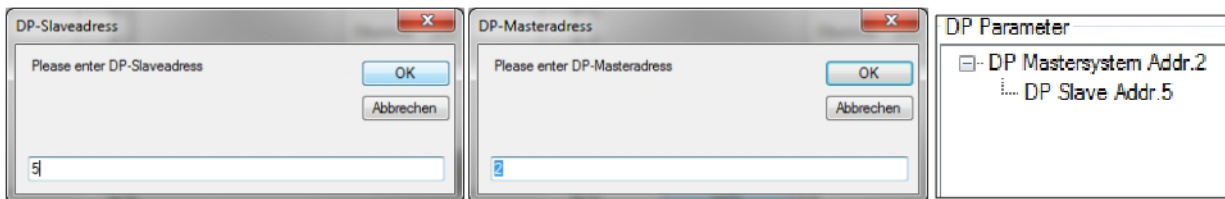
PROFIBUS DP slave configuration:

Starting with firmware DE32_M83 or DE32_S83, PROFIBUS slaves are detected automatically. If you are using older firmware, proceed as follows:

Connect the radio master to the BLUambas® Manager. Under "Interface→ DP Parameter," configure the PROFIBUS addresses of all PROFIBUS DP slaves behind the radio link.



Click "Add DP Slave" and first enter one of the PROFIBUS slave addresses. Confirm your entry with "OK" and then enter the PROFIBUS master address for this slave. Confirm your entry with "OK."



Depending on the BLUambas® version, you can assign up to eight PROFIBUS slaves to any PROFIBUS masters.

- ➔ Click on "Save Parameter."
- ➔ Click on "Disconnect."



Quick start guide BLUambas® PROFIBUS

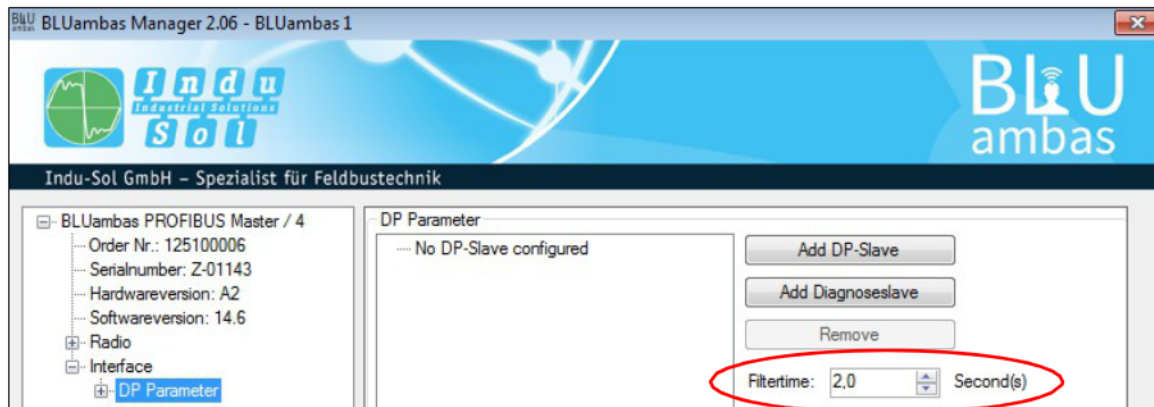


IP65

Filter time configuration:

Short radio interference can be suppressed by setting a filter time. If a radio slave cannot be reached due to radio interference, this is only indicated to the Profibus master by a bus error after the adjustable filter time has elapsed. Only then do the outputs of the connected DP slaves go into the safe state. This increases system availability but impairs real-time capability.

Connect the radio master to the BLUambas® Manager. Under "Interface→ DP Parameter," you can select the "Filter time" between 0.1 and 25.5 seconds.



→ Click on "Save Parameter."

→ Click on "Disconnect."