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wireless

Industrial wireless technology

PROFI
BUS

PROFI
NET



PROFIsafe

PROFIsafe

wireless



BLUambas® PROFIBUS

Function

The wireless system **BLUambas®** provides wireless data transmission in the fieldbus system PROFIBUS. Herewith mobile plant components or machines can be integrated simply into the system communication. For this reason BLUambas® is the perfect alternative for slip rings and trailing cables but without mechanic wear. As seen from the perspective of the controller the wireless system acts like a cable.

Instructions for use

BLUambas® for PROFIBUS ensures a transmission speed of up to 1,5 Mbps. To build up a PROFIBUS radio link one BLUambas® master module and at least one BLUambas® slave module are required. The maximum number of slave modules and PROFIBUS devices depends on the BLUambas® types.

BLUambas® is available with protection class IP20 or IP65 and can be freely selected within a radio link.

Variants

BLUambas® PROFIBUS Classic

A PROFIBUS radio link can be established between a master module and a maximum of one slave module. A maximum of four PROFIBUS devices can be installed behind the radio link and with up to 1.5 Mbps.

BLUambas® PROFIBUS Comfort

A PROFIBUS radio link can be established between a master module and a maximum of four slave modules. A maximum of four PROFIBUS devices can be installed behind the radio link and with up to 1.5 Mbps.

BLUambas® PROFIBUS Premium

A PROFIBUS radio link can be established between a master module and a maximum of eight slave modules. A maximum of four PROFIBUS devices can be installed behind the radio link and with up to 1.5 Mbps. In addition PROFIsafe communication can be transmitted.

Technical data

BLUambas® PROFIBUS (master+slave module):

- Transmission standard: IEEE 802.15.1 (Bluetooth)
- Transmission frequency: 2,4-2,4835 GHz
- Range indoor: 100m (depending on antenna)
- Range outdoor: 300m (depending on antenna)
- Antenna connection: SMA socket
- PB- refresh rate: 9,6kBit/s - 1,5MBit/s
- Temperature range: -20°C to 60°C
- PROFIBUS protocols: RS485 DPV0, DPV1

Version protection class IP 20:

- Installation: Top-hat rail
- Housing (H x W x D): 105 x 23 x 125 mm
- Voltage supply: 24 V DC, 2 W, terminal
- PROFIBUS interface: 9 pole Sub-D

Version protection class IP 65:

- Installation: 4 holes screw fastening
- Housing (H x W x D): 121 x 88 x 42 mm
- Voltage supply: 24 V DC, 2 W, M12 A coding
- PROFIBUS interface: M12 D coding



BLUambas® PROFIBUS IP20



BLUambas® PROFIBUS IP65

Ordering details

BLUambas® PROFIBUS Classic-AL master module IP20

BLUambas® PROFIBUS Classic-AL master module IP65

BLUambas® PROFIBUS Classic-AL slave module IP20

BLUambas® PROFIBUS Classic-AL slave module IP65

BLUambas® PROFIBUS Comfort-AL master module IP20

BLUambas® PROFIBUS Comfort-AL master module IP65

BLUambas® PROFIBUS Comfort-AL slave module IP20

BLUambas® PROFIBUS Comfort-AL slave module IP65

BLUambas® PROFIBUS Premium-AL master module IP20

BLUambas® PROFIBUS Premium-AL master module IP65

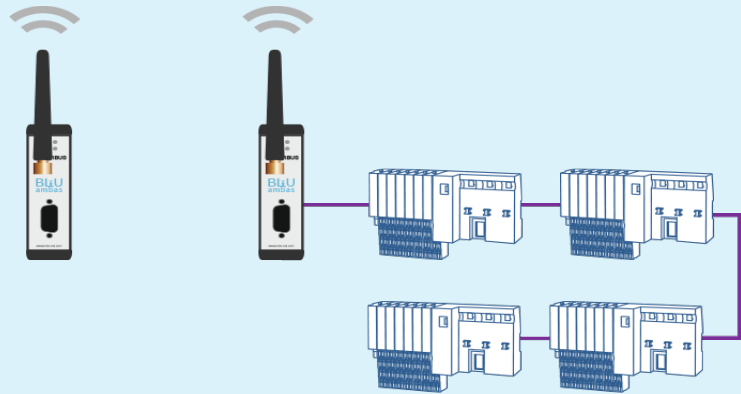
BLUambas® PROFIBUS Premium-AL slave module IP20

BLUambas® PROFIBUS Premium-AL slave module IP65

BLUambas® PROFIBUS Classic

A PROFIBUS radio link can be established between a master module and a maximum of one slave module. A maximum of four PROFIBUS devices can be installed behind the radio link and with up to 1.5 Mbps.

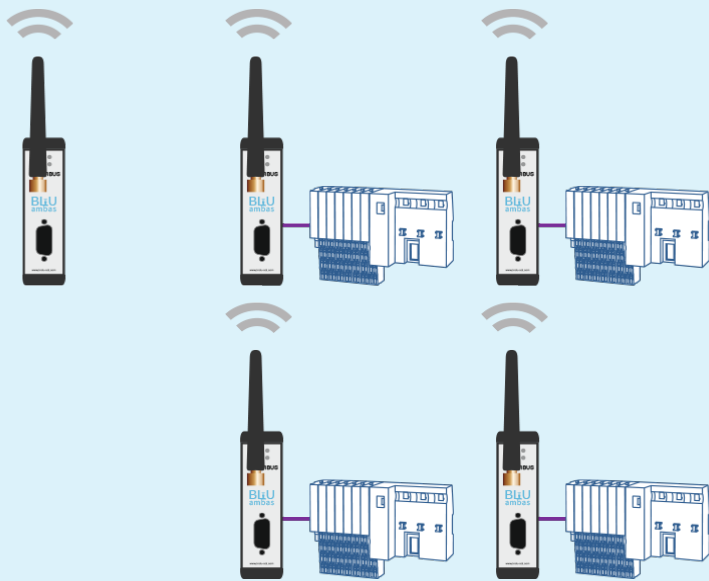
- Patented filter technology
- Profibus DP IO interface
- Plug and Play – No device configuration required
- Up to 1 km range
- Transmission speed up to 1.5 Mbit/s



BLUambas® PROFIBUS Comfort

A PROFIBUS radio link can be established between a master module and a maximum of four slave modules. A maximum of four PROFIBUS devices can be installed behind the radio link and with up to 1.5 Mbps.

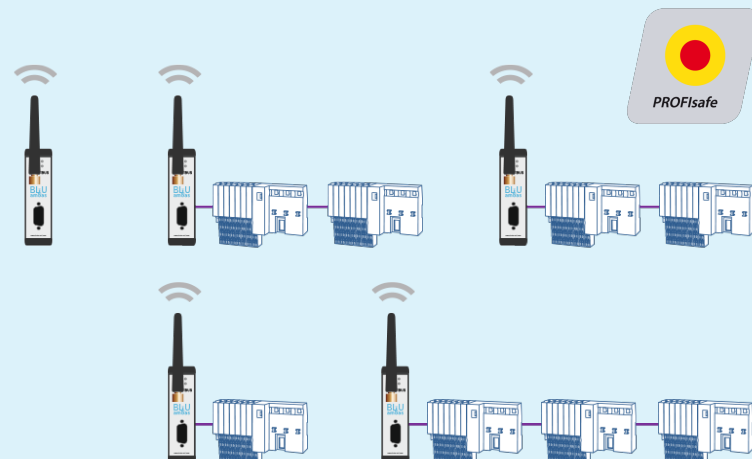
- Patented filter technology
- Profibus DP IO interface
- Plug and Play – No device configuration required
- Up to 1 km range
- Transmission speed up to 1.5 Mbit/s



BLUambas® PROFIBUS Premium

A PROFIBUS radio link can be established between a master module and a maximum of eight slave modules. A maximum of four PROFIBUS devices can be installed behind the radio link and with up to 1.5 Mbps. In addition PROFI-safe communication can be transmitted.

- Patented filter technology
- Profibus DP IO interface
- PROFI-safe
- Plug and Play – No device configuration required
- Up to 1 km range
- Transmission speed up to 1.5 Mbit/s



BLUambas® PROFINET

Function

The wireless system **BLUambas®** provides wireless data transmission in the fieldbus system PROFINET. Herewith mobile plant components or machines can be integrated simply into the system communication. For this reason BLUambas® is the perfect alternative for slip rings and trailing cables but without mechanic wear. As seen from the perspective of the controller the wireless system acts like a cable.

Instructions for use

PROFINET Wireless provides for all update rates starting with 1 ms. To build up a wireless PROFINET system one BLUambas® master module and at least one BLUambas® slave module are required. The maximum number of slave modules and PROFINET I/O devices depends on the BLUambas® types. Each BLUambas® PROFINET module can be configured as a master module as well as a slave module.

BLUambas® is available with protection class IP20 or IP65 and can be freely selected within a radio link.

Variants

BLUambas® PROFINET Classic

A PROFINET radio link can be established between a master module and a maximum of one slave module. A maximum of four PROFINET IO devices can be installed behind the radio link.

BLUambas® PROFINET Comfort

A PROFINET radio link can be established between a master module and a maximum of four slave modules. A maximum of six PROFINET IO devices can be installed behind the radio link.

BLUambas® PROFINET Premium

A PROFINET radio link can be established between a master module and maximum four slave modules. A maximum of six PROFINET IO devices can be installed behind the radio link. In addition PROFIsafe communication is transmitted.

Technical data

BLUambas® PROFINET:

- Transmission standard: IEEE 802.15.1 (Bluetooth)
- Transmission frequency: 2,4-2,4835 GHz
- Range indoor: 100m (depending on antenna)
- Range outdoor: 300m (depending on antenna)
- Antenna connection: SMA socket
- PN refresh rate: ≥ 1 ms
- Temperature range: -20°C to 60°C
- Protocols: Ethernet 100 MBit

Version protection class IP 20:

- Installation: Top-hat rail
- Housing (H x W x D): 105 x 23 x 125 mm
- Voltage supply: 24 V DC, 2 W, terminal
- PROFINET interface: 2 x RJ45

Version protection class IP 65:

- Installation: 4 holes screw fastening
- Housing (H x W x D): 121 x 88 x 42 mm
- Voltage supply: 24 V DC, 2 W, M12 A coding
- PROFINET interface: M12 D coding



BLUambas® PROFINET IP20



BLUambas® PROFINET IP65

Ordering details

BLUambas® PN Classic-AL master/slave module IP20

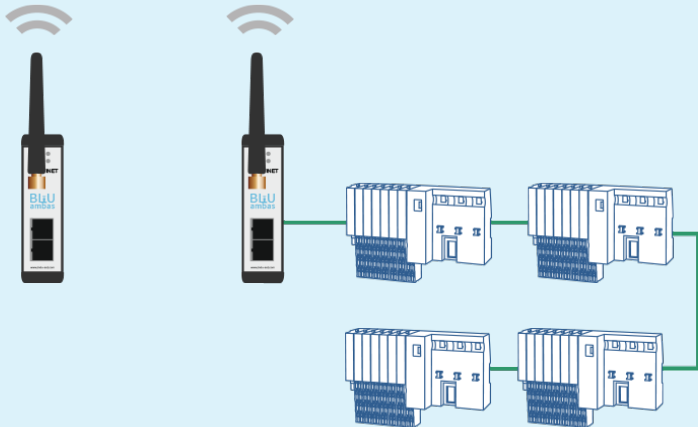
BLUambas® PN Classic-AL master/slave module IP65

BLUambas® PN Comfort-AL master/slave module IP20

BLUambas® PN Comfort-AL master/slave module IP65

BLUambas® PN Premium-AL master/slave module IP20

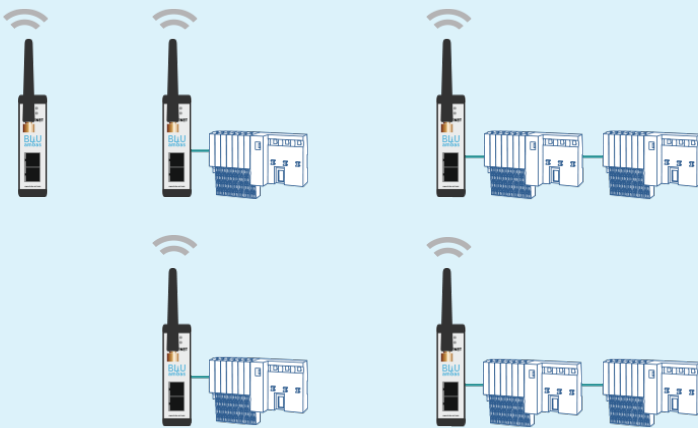
BLUambas® PN Premium-AL master/slave module IP65



BLUambas® PROFINET Classic

A PROFINET radio link can be established between a master module and a maximum of one slave module. A maximum of four PROFINET IO devices can be installed behind the radio link.

- Patented filter technology
- Profinet IO interface
- Plug and Play – No device configuration required
- Up to 1 km range
- Transmission speed up to 1.5 Mbit/s



BLUambas® PROFINET Comfort

A PROFINET radio link can be established between a master module and a maximum of four slave modules. A maximum of six PROFINET IO devices can be installed behind the radio link.

- Patented filter technology
- Profinet IO interface
- Plug and Play – No device configuration required
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BLUambas® PROFINET Premium

A PROFINET radio link can be established between a master module and maximum four slave modules. A maximum of six PROFINET IO devices can be installed behind the radio link. In addition PROFIsafe communication is transmitted.

- Patented filter technology
- Profinet IO interface
- PROFIsafe
- Plug and Play – No device configuration required
- Up to 1 km range
- Transmission speed up to 1.5 Mbit/s



VERSATILE USE

APPLICATION EXAMPLES:

Everything is possible

- Crane systems
- Oil and gas industry
- Substitute of slip rings
- Substitute of trailing cables and cable chains
- Substitute of optical data transceivers
- Warehouse systems Automotive industry
- Water, wastewater, waste and feedstock industry
- Engineering
- Transport vehicles
- Lifts, inclined lifts and cable cars
- Steelworks
- Stage technology



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Certified according to DIN EN ISO 9001:2015



wireless system BLUambas

Uambas<https://www.indu-sol.com/en/products/wireless/infrastructure-components/bluambasr> or tap on QR code