# Bluetooth converter - PSI-WL-RS232-RS485/BT/HL - 2313795

Please be informed that the data shown in this PDF Document is generated from our Online Catalog. Please find the complete data in the user's documentation. Our General Terms of Use for Downloads are valid (http://phoenixcontact.com/download)



Bluetooth convertor, wireless transmission: RS-232/RS-422/RS-485 2-wire, mounting on EN DIN rails, MCX connection for external antenna, integrated path diagnostics: bar graph, UL-HazLoc approval

## Product Features

- Local configuration via USB interface without separate power supply unit
- Multipoint with up to seven slaves
- Suitable for worldwide use thanks to adjustable transmission power (-28 ... 14 dBm)
- Secure and tamper-proof data transmission thanks to password protection, encryption, plus fixed and invisible device pairing
- Wireless path diagnostics using integrated bar graphs and 2 digital outputs
- Coexistence with other wireless systems due to the adaptive frequency hopping (AFH) method
- Installation of parallel wireless paths by cross-wiring 24 V DC and RS-485
- Point-to-point
- Can be used for RS-232/RS-422/RS-485 2-wire interfaces up to 187.5 kbps
- Transceiver for distances of up to 150 m
- UL HazLoc approval

## Key commercial data

| | |
|---|---|
| Packing unit | 1 pc |
| Weight per Piece (excluding packing) | 200.0 GRM |
| Custom tariff number | 85176200 |
| Country of origin | Germany |

## Technical data

### Dimensions

| | |
|---|---|
| Width | 22.5 mm |
| Height | 99 mm |
| Depth | 116 mm |

# Bluetooth converter - PSI-WL-RS232-RS485/BT/HL - 2313795

## Technical data

### Ambient conditions

| | |
|---|---|
| Ambient temperature (operation) | -20 °C ... 60 °C |
| Ambient temperature (storage/transport) | -40 °C ... 85 °C |
| Permissible humidity (operation) | 10 % ... 95 % (non-condensing) |
| Permissible humidity (storage/transport) | 5 % ... 95 % (non-condensing) |
| Altitude | 5000 m (For restrictions see manufacturer's declaration) |
| Degree of protection | IP20 |
| Noise immunity | EN 61000-6-2:2005 |

### General

| | |
|---|---|
| Electrical isolation | VCC // Bluetooth, RS-232, RS-422, RS-485, USB |
| Test voltage data interface/power supply | 1.5 kV AC (50 Hz, 1 min.) |
| Standards/regulations | FCC Part 15.247 / ISC RSS 210 |
| Electromagnetic compatibility | Conformance with R&TTE directive 1999/5/EC |
| Noise emission | EN 55011 |
| Net weight | 196.6 g |
| Housing material | PA 6.6-FR |
| Color | green |
| MTBF | 1153 Years (Telcordia standard, 25°C temperature, 21% operating cycle (5 days a week, 8 hours a day)) |
| | 262 Years (Telcordia standard, 40°C temperature, 34.25% operating cycle (5 days a week, 12 hours a day)) |
| MTTF | 2115 Years (SN 29500 standard, temperature 25°C, operating cycle 21 % (5 days a week, 8 hours a day)) |
| | 850 Years (SN 29500 standard, temperature 40 °C, operating cycle 34.25 % (5 days a week, 12 hours a day)) |
| | 346 Years (SN 29500 standard, temperature 40°C, operating cycle 100 % (7 days a week, 24 hours a day)) |
| Conformance | CE-compliant |
| UL, USA / Canada | Class I, Zone 2, AEx nA IIC T6 |
| | Class I, Zone 2, Ex nA IIC T6 Gc X |
| | Class I, Div. 2, Groups A, B, C, D |
| | cULus listed UL 508 |
| Wireless licences | Belgium |
| | Bulgaria |
| | Denmark |
| | Germany |
| | Estonia |
| | France |
| | Finland |

# Bluetooth converter - PSI-WL-RS232-RS485/BT/HL - 2313795

## Technical data

### General

| | |
|---|---|
| | Greece |
| | Great Britain |
| | Italy |
| | Ireland |
| | Iceland |
| | Liechtenstein |
| | Lithuania |
| | Luxembourg |
| | Latvia |
| | Malta |
| | Netherlands |
| | Norway (The device may not be operated within 20 km of Ny Ålesund town center.) |
| | Austria |
| | Poland |
| | Portugal |
| | Romania |
| | Sweden |
| | Switzerland |
| | Slovakia |
| | Slovenia |
| | Spain |
| | Czech Republic |
| | Turkey (The device may only be operated with Phoenix Contact antennas in accordance with the “Short Range Radio Devices (SRD) Regulations” Gazette No. 26464 dated March 16, 2007.) |
| | Hungary |
| | USA |
| | Cyprus (rep.) |
| | Belarus (Maximum transmission power of 25 mW (14 dBm) outside of buildings) |

### Power supply

| | |
|---|---|
| Nominal supply voltage | 24 V DC ±20 % (as an alternative or redundant, via backplane bus contact and system current supply) |
| | 24 V DC ±20 % (as an alternative or redundant, via backplane bus contact and system current supply) |
| Supply voltage range | 10 V DC ... 30 V DC (via pluggable COMBICON screw terminal block) |
| | 19 V AC ... 29 V AC (50/60 Hz) |
| Typical current consumption | 100 mA (24 V DC) |

# Bluetooth converter - PSI-WL-RS232-RS485/BT/HL - 2313795

## Technical data

### Serial interface

| | |
|---|---|
| Interface 1 | V.24 (RS-232) interface in acc. with ITU-T V.28, EIA/TIA-232, DIN 66259-1 |
| Interface | RS-232 |
| Connection method | D-SUB-9 plug |
| File format/coding | Serial asynchronous UART/NRZ, 7/8 data, 1/2 stop, 1 parity, 10/11-bit character length |
| Transmission length | ≤ 15 m |
| Pin assignment | DCE (Data Communication Equipment) |
| Data flow control/protocols | Software handshake, Xon/Xoff, or hardware handshake RTS/CTS, 3964 compatible |
| Serial transmission speed | 1.2; 2.4; 4.8; 7.2; 9.6; 19.2; 31.25; 38.4; 57.6; 75; 93.75; 115.2 kbps |
| Interface 2 | RS-422 interface in acc. with ITU-T V.11, EIA/TIA-422, DIN 66348-1 |
| Interface | RS-422 |
| Connection method | Pluggable screw connection |
| Transmission length | ≤ 1200 m |
| Termination resistor | 390 Ω (configurable) |
| | 180 Ω |
| | 390 Ω |
| Serial transmission speed | 1.2; 2.4; 4.8; 7.2; 9.6; 19.2; 31.25; 38.4; 57.6; 75; 93.75; 115.2; 136; 187.5 kbps |
| Interface 3 | RS-485 interface, in acc. with EIA/TIA-485, DIN 66259-4/RS-485 2-wire |
| Interface | RS-485 2-wire |
| Connection method | Pluggable screw connection |
| File format/coding | Serial asynchronous UART/NRZ, 7/8 data, 1/2 stop, 1 parity, 10/11-bit character length |
| Transmission length | ≤ 1200 m |
| Termination resistor | 390 Ω (configurable) |
| | 180 Ω |
| | 390 Ω |
| Data flow control/protocols | Automatic control |
| Serial transmission speed | 1.2; 2.4; 4.8; 7.2; 9.6; 19.2; 31.25; 38.4; 57.6; 75; 93.75; 115.2; 136; 187.5 kbps |
| Interface 4 | USB 2.0 |
| Interface | USB |
| Connection method | Mini-USB B, socket |

### Radio interface

| | |
|---|---|
| Interface description | Bluetooth 2.1 + EDR |
| Frequency range | 2.402 GHz ... 2.48 GHz (ISM bandwidth) |
| Transmission method | 1.6 kHz (FHSS) |

# Bluetooth converter - PSI-WL-RS232-RS485/BT/HL - 2313795

## Technical data

### Radio interface

| | |
|---|---|
| Channel distance | 1 MHz |
| Transmit capacity, minimum | 0 dBm |
| Transmit capacity, maximum | 14 dBm (Outside of Europe, adjustable via software) |
| | 10 dBm (Europe, can be set via software) |
| | 10 dBm (Default setting, adjustable) |
| Minimum receiver sensitivity | -91 dBm |
| Antenna | External |
| Connection method | MCX socket |
| Bluetooth Multidrop master/slave | 1/7 |

### Digital outputs

| | |
|---|---|
| Output name | Digital outputs |
| Number of outputs | 2 |
| Connection method | COMBICON plug-in screw terminal block |

## Classifications

### eCl@ss

| | |
|---|---|
| eCl@ss 4.0 | 27250313 |
| eCl@ss 4.1 | 27250313 |
| eCl@ss 5.0 | 27242214 |
| eCl@ss 5.1 | 27242214 |
| eCl@ss 6.0 | 19050110 |
| eCl@ss 7.0 | 19050110 |

### ETIM

| | |
|---|---|
| ETIM 3.0 | EC001467 |
| ETIM 4.0 | EC001467 |
| ETIM 5.0 | EC001467 |

### UNSPSC

| | |
|---|---|
| UNSPSC 6.01 | 30211506 |
| UNSPSC 7.0901 | 39121008 |
| UNSPSC 11 | 39121008 |
| UNSPSC 12.01 | 39121008 |
| UNSPSC 13.2 | 39121008 |

# Bluetooth converter - PSI-WL-RS232-RS485/BT/HL - 2313795

## Approvals

### Approvals

Approvals

UL Listed / cUL Listed / cULus Listed

Ex Approvals

UL Listed / cUL Listed / cULus Listed

Approvals submitted

### Approval details

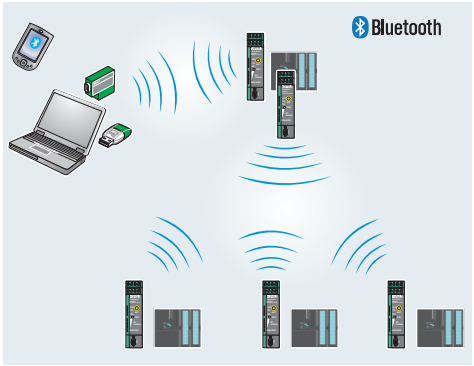
UL Listed

cUL Listed

cULus Listed

## Drawings

Functional drawing



Phoenix Contact 2015 © - all rights reserved
http://www.phoenixcontact.com

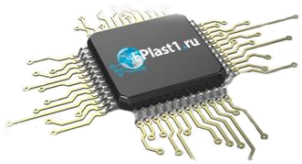
Компания «ЭлектроПласт» предлагает заключение долгосрочных отношений при поставках импортных электронных компонентов на взаимовыгодных условиях!

Наши преимущества:

- Оперативные поставки широкого спектра электронных компонентов отечественного и импортного производства напрямую от производителей и с крупнейших мировых складов;
- Поставка более 17-ти миллионов наименований электронных компонентов;
- Поставка сложных, дефицитных, либо снятых с производства позиций;
- Оперативные сроки поставки под заказ (от 5 рабочих дней);
- Экспресс доставка в любую точку России;
- Техническая поддержка проекта, помощь в подборе аналогов, поставка прототипов;
- Система менеджмента качества сертифицирована по Международному стандарту ISO 9001;
- Лицензия ФСБ на осуществление работ с использованием сведений, составляющих государственную тайну;
- Поставка специализированных компонентов (Xilinx, Altera, Analog Devices, Intersil, Interpoint, Microsemi, Aeroflex, Peregrine, Syfer, Eurofarad, Texas Instrument, Miteq, Cobham, E2V, MA-COM, Hittite, Mini-Circuits,General Dynamics и др.);

Помимо этого, одним из направлений компании «ЭлектроПласт» является направление «Источники питания». Мы предлагаем Вам помощь Конструкторского отдела:

- Подбор оптимального решения, техническое обоснование при выборе компонента;
- Подбор аналогов;
- Консультации по применению компонента;
- Поставка образцов и прототипов;
- Техническая поддержка проекта;
- Защита от снятия компонента с производства.




**Как с нами связаться**

**Телефон:** 8 (812) 309 58 32 (многоканальный)
**Факс:** 8 (812) 320-02-42
**Электронная почта:** org@eplast1.ru
**Адрес:** 198099, г. Санкт-Петербург, ул. Калинина, дом 2, корпус 4, литера А.