

## Bluetooth converter - PSI-WL-PROFIB/BT-SET/2DO - 2313876

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Bluetooth PROFIBUS SET, pre-configured: PROFIBUS point-to-point, PROFIBUS baud rate: 187.5 kbps, integrated path diagnostics: bar graph + two digital outputs, contents: 2 x Bluetooth converter + 2 x antenna

### Product Features

- Transparent PROFIBUS transmission
- PROFIBUS data rate of 187.5 kbps
- Plug and play - startup without configuration
- Wireless diagnostics by means of bar graph and digital outputs



### Key Commercial Data

Packing unit	1 pc
Weight per Piece (excluding packing)	500.0 g
Custom tariff number	85176200
Country of origin	Germany

### Technical data

#### Dimensions

Width	22.5 mm
Height	99 mm
Depth	116 mm

#### 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)

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## Technical data

### Ambient conditions

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 (valid until June 12, 2016) or 2014/53/EU (valid from June 13, 2016)
Noise emission	EN 55011
Net weight	479.7 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	cULus listed UL 508
FCC	Part 15, RSS 210
Wireless licences	Belgium
	Bulgaria
	Denmark
	Germany
	Estonia
	France
	Finland
	Greece
	Great Britain
	Italy
	Ireland
	Iceland
Liechtenstein	
Lithuania	

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### Technical data

#### General

	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)
	South Korea

#### Power supply

Nominal supply voltage	24 V AC $\pm$ 20 % (via pluggable COMBICON screw terminal block)
	24 V DC $\pm$ 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 (via pluggable COMBICON screw terminal block)
Typical current consumption	$\leq$ 100 mA (24 V DC)

#### Serial interface

Interface 1	RS-485 interface, in acc. with EIA/TIA-485, DIN 66259-4/RS-485 2-wire
Interface	Preconfigured
Connection method	COMBICON screw terminal block
File format/coding	8 data, 1 stop, 1 parity, 11 bit character length
Transmission length	$\leq$ 1200 m

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### Technical data

#### Serial interface

Termination resistor	390 Ω - 150 Ω - 390 Ω (can be connected)
Serial transmission speed	Preconfigured
	187500 bps

#### Radio interface

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

#### Standards and Regulations

Electromagnetic compatibility	Conformance with R&TTE Directive 1999/5/EC (valid until June 12, 2016) or 2014/53/EU (valid from June 13, 2016)
Type of test	Free fall in acc. with IEC 60068-2-32
Test result	1 m
Type of test	Vibration resistance in acc. with EN 60068-2-6/IEC 60068-2-6
Test result	5g, 10-150 Hz, 2.5 h, in XYZ direction
Type of test	Shock in acc. with EN 60068-2-27/IEC 60068-2-27
Test result	15g, 11 ms period, half-sine shock pulse
Noise emission	EN 55011
Noise immunity	EN 61000-6-2:2005
Free from substances that could impair the application of coating	according to P-VW 3.10.7 57 65 0 VW-AUDI-Seat central standard
Standards/regulations	EN 61000-4-3
	EN 61000-4-4
	EN 61000-4-6
	FCC Part 15.247 / ISC RSS 210
Conformance	CE-compliant
UL, USA / Canada	cULus listed UL 508
FCC	Part 15, RSS 210

## Bluetooth converter - PSI-WL-PROFIB/BT-SET/2DO - 2313876

### Articles in set

Bluetooth converter - PSI-WL-RS232-RS485/BT/2DO - 2313805



Bluetooth converter, 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 + two digital outputs

Antenna - RAD-ISM-2400-ANT-OMNI-2-1 - 2867461



Omnidirectional antenna, 2.4 GHz, 2 dBi, linear vertical, 1.5 m cable, MCX (male), IP65, 50 Ω impedance

### 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
eCl@ss 8.0	19179290

#### 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-PROFIB/BT-SET/2DO - 2313876

Approvals

Approvals

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Approvals

EAC / EAC

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Ex Approvals

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Approvals submitted

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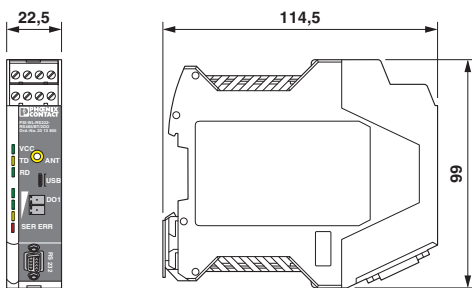
Approval details

EAC

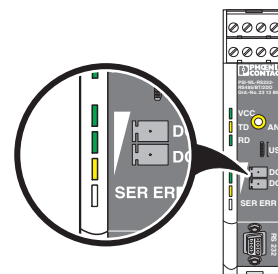
EAC

Drawings

Dimensional drawing



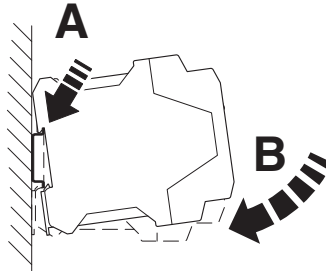
Schematic diagram



Diagnostic and status indicators

## Bluetooth converter - PSI-WL-PROFIB/BT-SET/2DO - 2313876

Schematic diagram



Assembly

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