

## 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, cross-wiring of 24 V DC and RS-485 2-wire, 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 GRM
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)
Degree of protection	IP20

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## Technical data

### Ambient conditions

Noise immunity	EN 61000-6-2:2005
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### 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
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
	Luxembourg
	Latvia

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

### Technical data

#### General

	Malta
	The 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 antennae (see "Wireless accessories" data sheet, Doc. No. 101580) 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 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	V.24 (RS-232) interface in acc. with ITU-T V.28, EIA/TIA-232, DIN 66259-1
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
Termination resistor	390 $\Omega$ - 150 $\Omega$ - 390 $\Omega$ (can be connected)
Serial transmission speed	Preconfigured

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## Technical data

### Serial interface

	187500 bps
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### 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	14 dBm
Minimum receiver sensitivity	-91 dBm
Antenna	External
Connection method	MCX
Range	≤ 150 m (14 dBm)

## Articles in set

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



Bluetooth converter, wireless transmission: V.24 (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, cross-wiring of 24 V DC and RS-485 2-wire

### 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

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### Classifications

#### eCl@ss

eCl@ss 7.0	19050110
eCl@ss 8.0	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