

# RAD-RUGGED-BOX-CONF - Wireless module



1091638

<https://www.phoenixcontact.com/gb/products/1091638>

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Radioline switchgear and controlgear assembly in impact-proof IP66 outdoor housing with universal power supply 100...240 V AC, surge protection and antenna feedthrough. Type of wireless module (frequency band), type and number of I/O extension modules are configurable.

## Product description

RAD-RUGGED-BOX-CONF is a switchgear and controlgear assembly consisting of an IP66 polycarbonate housing with antenna feed-through and cable entries, a 230 V power supply unit, and surge protection. When ordering, select the wireless module as well as the type and number of I/O extension modules (up to three pieces). You can use the switchgear and controlgear assembly as a base, remote, or repeater station with or without I/O extension modules. It enables supply, sensor, actuator and antenna lines to be connected.

## Your advantages

- Completely pre-wired control box with integrated power supply unit, surge protection, selected wireless module, and I/O extension modules
- Can be used outdoors, thanks to a robust, UV-resistant, and impact-proof IP-66 housing
- Fast and easy connection of the power supply and I/O signals

## Commercial data

Item number	1091638
Packing unit	1 pc
Minimum order quantity	1 pc
Note	Made to order (non-returnable)
Sales key	DNC61Z
Product key	DNC61Z
Weight per piece (including packing)	4,113 g
Weight per piece (excluding packing)	3,561 g
Customs tariff number	85176200
Country of origin	DE

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## Set consists of

### QUINT4-SYS-PS/1AC/24DC/2.5/SC - Power supply

2904614

<https://www.phoenixcontact.com/gb/products/2904614>



Primary-switched power supply, QUINT POWER, screw connection, DIN rail mounting, supply of devices possible via the TBUS DIN rail connector, protective coating, input: single-phase, output: 24 V DC/2.5 A

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### RAD-ADP-RSMA/M-RSMA/F-90 - Adapter

2904790

<https://www.phoenixcontact.com/gb/products/2904790>



Antenna adapter, frequency range: 0.3 GHz ... 6 GHz, connection: RSMA (male)  
-> RSMA (female), 90° angled

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## PLT-SEC-T3-230-FM-PT - Type 3 surge protection device

2907928

<https://www.phoenixcontact.com/gb/products/2907928>



Type 2/3 surge protection, consisting of protective plug and base element with Push-in connection. For single-phase power supply network with integrated status indicator and remote signaling. Nominal voltage: 230 V AC/DC

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## CN-UB-70DC-6-BB - Surge protection device

2803166

<https://www.phoenixcontact.com/gb/products/2803166>



Attachment plug with surge protection for coaxial signal interfaces. Connection: N connector, female/female

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## RAD-PIG-RSMA/N-0.5 - Antenna cable

2903263

<https://www.phoenixcontact.com/gb/products/2903263>

Antenna cable, outside diameter: 5 mm (0.2 in.), inner conductor: solid, attenuation: 0.4 / 0.5 / 0.6 dB at 0.9 / 2.4 / 5.8 GHz, connection: N (male) -> RSMA (male), cable length: 0.5 m (1.6 ft.)



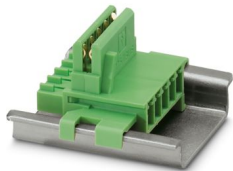
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## ME 17,5 TBUS 1,5/ 5-ST-3,81 GN - DIN rail bus connector

2709561

<https://www.phoenixcontact.com/gb/products/2709561>

DIN rail bus connector for DIN rail mounting. Universal for TBUS housing. Gold-plated contacts, 5-pos.



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## NS 35/ 7,5 PERF 2000MM - DIN rail perforated

0801733

<https://www.phoenixcontact.com/gb/products/0801733>



DIN rail perforated, Pack of 25 (50 m), acc. to EN 60715, material: Steel, galvanized, passivated with a thick layer, Standard profile, color: silver

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## CLIPFIX 35-5 - End bracket

3022276

<https://www.phoenixcontact.com/gb/products/3022276>



Quick mounting end clamp for NS 35/7,5 DIN rail or NS 35/15 DIN rail, with marking option, with parking option for FBS...5, FBS...6, KSS 5, KSS 6, width: 5.15 mm, color: gray

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## PT 2,5 - Feed-through terminal block

3209510

<https://www.phoenixcontact.com/gb/products/3209510>



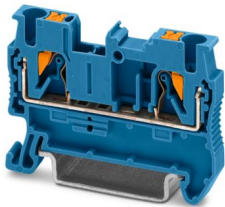
Feed-through terminal block, nom. voltage: 800 V, nominal current: 24 A, number of connections: 2, number of positions: 1, connection method: Push-in connection, Rated cross section: 2.5 mm<sup>2</sup>, cross section: 0.14 mm<sup>2</sup> - 4 mm<sup>2</sup>, mounting type: NS 35/7,5, NS 35/15, color: gray

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## PT 2,5 BU - Feed-through terminal block

3209523

<https://www.phoenixcontact.com/gb/products/3209523>



Feed-through terminal block, nom. voltage: 800 V, nominal current: 24 A, number of connections: 2, number of positions: 1, connection method: Push-in connection, Rated cross section: 2.5 mm<sup>2</sup>, cross section: 0.14 mm<sup>2</sup> - 4 mm<sup>2</sup>, mounting type: NS 35/7,5, NS 35/15, color: blue

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## PT 4-TWIN-PE - Protective conductor terminal block

3211780

<https://www.phoenixcontact.com/gb/products/3211780>



Protective conductor terminal block, number of connections: 3, connection method: Push-in connection, Rated cross section: 4 mm<sup>2</sup>, cross section: 0.2 mm<sup>2</sup> - 6 mm<sup>2</sup>, mounting type: NS 35/7,5, NS 35/15, color: green-yellow

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## D-PT 4-TWIN - End cover

3208977

<https://www.phoenixcontact.com/gb/products/3208977>



End cover, depth: 29 mm, width: 2.2 mm, height: 66.5 mm, color: gray

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## G-INS-M20-S68N-PNES-LG - Cable gland

1414568

<https://www.phoenixcontact.com/gb/products/1414568>



Cable gland, material for screw connection: PA, application: Standard, external cable diameter 6 mm ... 12 mm, shielding: no, connecting thread: M20 x 1.5, color: lightgray RAL 7035

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## A-INL-M20-P-LG - Counter nut

1414570

<https://www.phoenixcontact.com/gb/products/1414570>

Counter nut, for threads M20 x 1.5, color: light gray



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## A-INB-M12-69KN-P-LG - Pressure compensation element

1415222

<https://www.phoenixcontact.com/gb/products/1415222>



Pressure compensation element, material for screw connection: PA, connecting thread: M12 x 1.5, color: light gray, with O-ring

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## A-INL-M12-P-LG - Counter nut

1417659

<https://www.phoenixcontact.com/gb/products/1417659>



Counter nut, for threads M12 x 1.5, color: light gray

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## E/ME TBUS NS35 GY - End bracket

2713780

<https://www.phoenixcontact.com/gb/products/2713780>



End clamp, stable construction for DIN rail bus connector

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## RAD-2400-IFS - Wireless module

2901541

<https://www.phoenixcontact.com/gb/products/2901541>



Radioline - 2.4 GHz wireless transceiver with RS-232/RS-485 interface, can be extended with I/O modules, RSMA (female) antenna connection, point-to-point, star, and mesh networks up to 250 stations, range of up to 5 km (with a clear line of sight), for worldwide use

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## RAD-868-IFS - Wireless module

2904909

<https://www.phoenixcontact.com/gb/products/2904909>



Radioline - 868 MHz wireless transceiver with RS-232/RS-485 interface, can be extended with I/O modules, RSMA (female) antenna connection, point-to-point, star, and mesh networks up to 99 stations, range of up to 20 km (with a clear line of sight), for use in Europe

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## RAD-900-IFS-AU - Wireless module

2702878

<https://www.phoenixcontact.com/gb/products/2702878>



Radioline - 900 MHz wireless transceiver with RS-232/485 interface, can be extended with I/O modules, RSMA (female) antenna connection, point-to-point, star, and mesh networks up to 250 stations, range of up to 32 km (line of sight), for use in Australia.

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## RAD-DAIO6-IFS - I/O extension module

2901533

<https://www.phoenixcontact.com/gb/products/2901533>



Radioline - I/O extension module, 2 digital inputs and outputs (0 ... 250 V AC/DC) and 1 analog input (0/4 ... 20 mA) and output (0/4 ... 20 mA, 0 ... 10 V)

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## RAD-DI4-IFS - I/O extension module

2901535

<https://www.phoenixcontact.com/gb/products/2901535>



Radioline - I/O extension module, 4 digital inputs (0 ... 250 V AC/DC)

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## RAD-DOR4-IFS - I/O extension module

2901536

<https://www.phoenixcontact.com/gb/products/2901536>



Radioline - I/O extension module, 4 digital relay outputs (5 A, 250 V AC/DC)

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## RAD-DI8-IFS - I/O extension module

2901539

<https://www.phoenixcontact.com/gb/products/2901539>



Radioline - I/O extension module, 8 digital inputs (0 ... 30.5 V DC) or 2 pulse inputs up to 100 Hz

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## RAD-DO8-IFS - I/O extension module

2902811

<https://www.phoenixcontact.com/gb/products/2902811>

Radioline - I/O extension module, 8 digital transistor outputs (30.5 V DC/200 mA)



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## RAD-AI4-IFS - I/O extension module

2901537

<https://www.phoenixcontact.com/gb/products/2901537>

Radioline - I/O extension module, 4 analog current inputs (0/4 mA ... 20 mA)



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## RAD-AO4-IFS - I/O extension module

2901538

<https://www.phoenixcontact.com/gb/products/2901538>



Radioline - I/O extension module, 4 analog current or voltage outputs (0/4 mA ... 20 mA, 0 V ... 10 V)

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## RAD-PT100-4-IFS - I/O extension module

2904035

<https://www.phoenixcontact.com/gb/products/2904035>



Radioline - I/O extension module, 4 Pt 100 inputs (-50°C ... +250°C / -58 °F ... 482 °F)

## Technical data

### Notes

#### Note on application

Note on application	Only for industrial use
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### Product properties

Application	I/O
	RS-232
	RS-485

#### Insulation characteristics

Protection class	I (In accordance with DIN EN 61140)
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### Electrical properties

#### Supply

Supply voltage range	100 V AC ... 240 V AC
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### Input data

Description of the input	Depending on the selected I/O extension module
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### Output data

#### Analog

Output name	Depending on the selected I/O extension module
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### Interfaces

#### Wireless

Range	Depending on the selected wireless module
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#### Wireless

Interface description	Trusted Wireless
Direction	Bi-directional
Antenna connection method	N (female)

#### Wireless

Frequency band	2.4 GHz
	868 MHz
	900 MHz

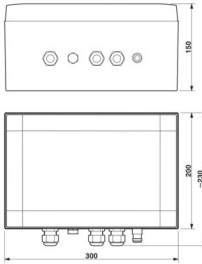
### Dimensions

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Dimensional drawing	
Width	300 mm
Height	240 mm
Depth	150 mm

## Material specifications

Color (Housing)	light gray (RAL 7035)
Material (Housing)	Polycarbonate

## Cable/line

External cable diameter	6 mm ... 12 mm
Other resistance	UV resistant (In accordance with UL 508)

## Environmental and real-life conditions

### Ambient conditions

Degree of protection	IP66
Impact strength	IK10 (+35 °C) IK08 (-25 °C)
Ambient temperature (operation)	-25 °C ... 55 °C (>48 °C derating)
Ambient temperature (storage/transport)	-25 °C ... 55 °C
Altitude	< 2000 m (Above sea level)
Permissible humidity (storage/transport)	25 % ... 95 % (non-condensing)

## Standards and regulations

Other resistance	UV resistant (In accordance with UL 508)
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### Halogen-free

Standard designation	Halogen-free
Standards/specifications	DIN VDE 0472-815
Note	1

## Mounting

Mounting type	Panel mounting Mast mounting
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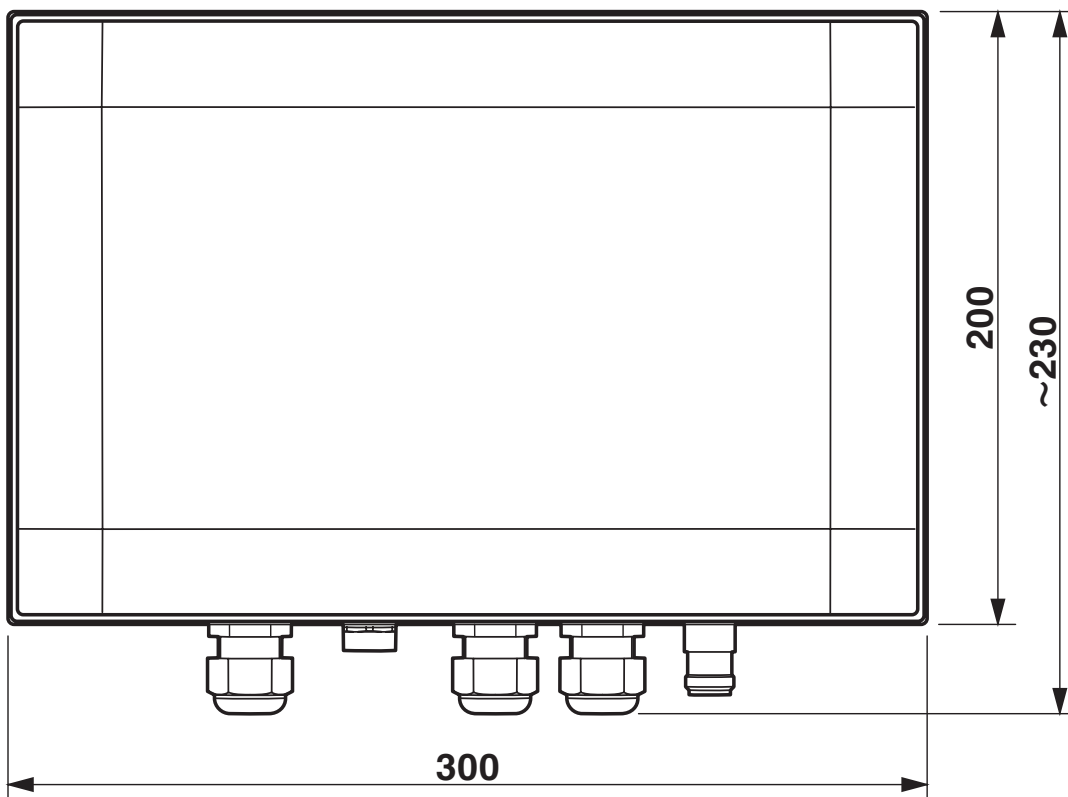
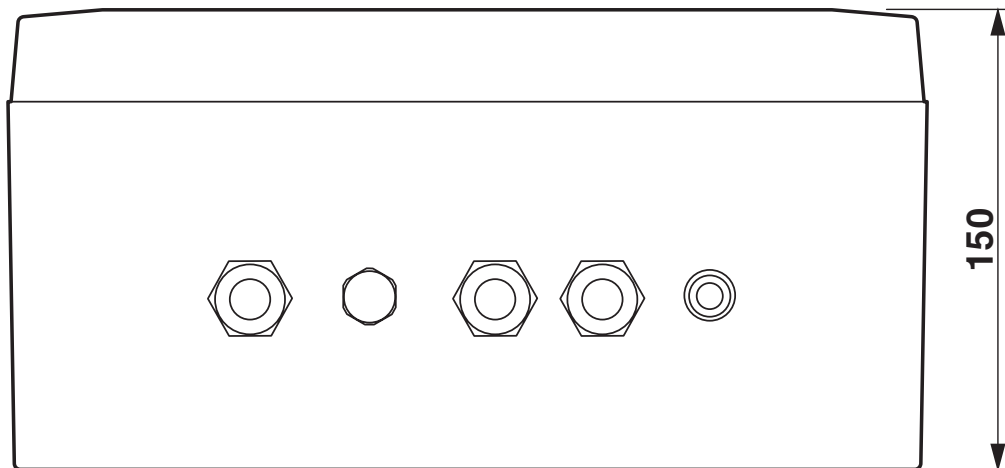


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## Drawings

Dimensional drawing



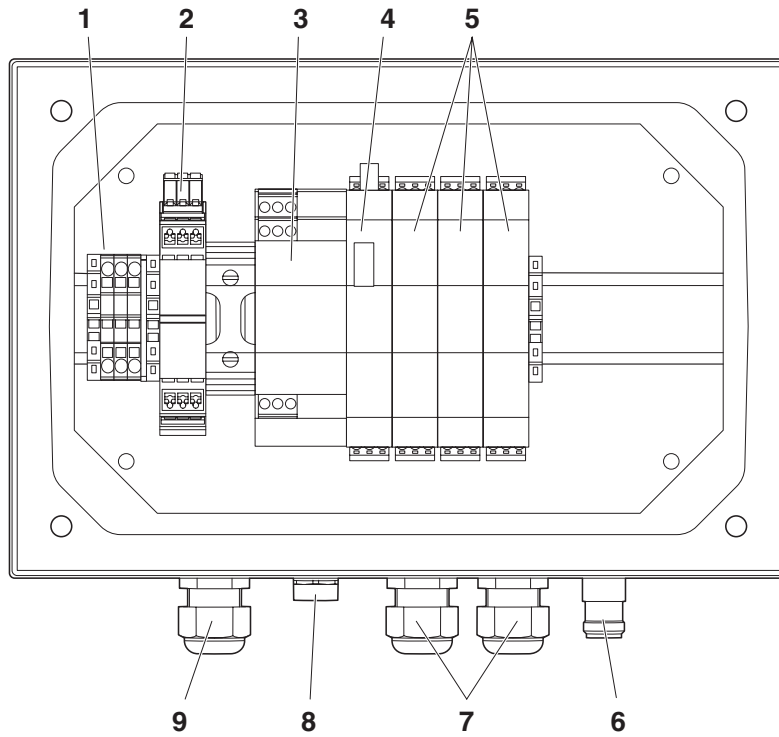
Dimensional drawing

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Schematic diagram



Front view

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## Classifications

### ECLASS

ECLASS-13.0	27180590
ECLASS-15.0	27180590

### ETIM

ETIM 9.0	EC000261
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### UNSPSC

UNSPSC 21.0	31261500
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## Environmental product compliance

### EU RoHS

Fulfills EU RoHS substance requirements	Yes
Exemption	6(c), 7(a), 7(c)-I

### China RoHS

Environment friendly use period (EFUP)	EFUP-50
	An article-related China RoHS declaration table can be found in the download area for the respective article under "Manufacturer declaration". For all articles with EFUP-E, no China RoHS declaration table issued and required.

### EU REACH SVHC

REACH candidate substance (CAS No.)	Lead(CAS: 7439-92-1)
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