

2702878

https://www.phoenixcontact.com/au/products/2702878

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 documentation. Our general terms of use for downloads are valid.



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.

Product description

Radioline is the new wireless system for large systems. Special features include extremely easy assignment of inputs and outputs by simply turning the thumbwheel - without any programming. Radioline transmits I/O signals (I/O mode) or serial data (serial mode) and is therefore very versatile. Alternatively, I/O signals can now also be connected to controllers directly using the Modbus protocol (PLC/Modbus RTU mode). In addition, you can implement various network structures: from a simple point-to-point connection to complex mesh networks. Thanks to the latest Trusted Wireless technology, Radioline is the ideal choice for industrial use.

Your advantages

- Mesh networks of up to 250 devices
- · High degree of reliability due to Trusted Wireless 2.0 technology (AES encryption, frequency hopping method, and coexistence management)
- · Quick and easy startup without programming
- Extended temperature range of -40 °C ... +70 °C
- · Range of several kilometers thanks to adjustable data rates for the wireless interface
- Integrated RS-232/RS-485 interface

Commercial data

Item number	2702878
Packing unit	1 pc
Minimum order quantity	1 pc
Sales key	DNC611
Product key	DNC611
Catalog page	Page 377 (C-6-2019)
GTIN	4055626449265
Weight per piece (including packing)	317 g
Weight per piece (excluding packing)	314 g
Customs tariff number	85176200
Country of origin	US



https://www.phoenixcontact.com/au/products/2702878



Technical data

Notes

	restr	

CE note	The products are offered exclusively for export outside the EU
	and the European Economic Area.

Product properties

Product type	Wireless module
Operating mode	PLC / Modbus RTU dual mode (Activation and configuration via PSI-CONF software)
Insulation characteristics	
Overvoltage category	II
Degree of pollution	2

Electrical properties

Transient surge protection	yes
Supply	
Supply voltage	24 V DC
Supply voltage range	10.8 V DC 30.5 V DC
Max. current consumption	328 mA (@24 V DC)
Power consumption	8.4 W (peak; 30 dBm)

Output data

Digital

Output name	RF link relay output
Number of outputs	1
Contact switching type	Changeover contact
Contact material	PdRu, gold-plated
Maximum switching voltage	30 V AC/DC
Max. switching current	500 mA
Electrical service life	5x 10 ⁵ switching cycles with 0.5 A at 30 V DC

Analog

Output name	RSSI voltage output
Number of outputs	1
Voltage output signal	0 V 3 V

Connection data

Connection method	Screw connection
Stripping length	7 mm
Conductor cross section, rigid min.	0.2 mm ²
Conductor cross section, rigid max.	2.5 mm²



https://www.phoenixcontact.com/au/products/2702878



Conductor cross section flexible min.	0.2 mm²
Conductor cross section flexible max.	2.5 mm²
Conductor cross section AWG min.	24
Conductor cross section AWG max.	14
erfaces	
Vireless	
Range	≤ 32 km (The range may be considerably above or below that
, and the second	stated, and depends on the environment, antenna technology,
	and the product used)
Serial: RS-232	
Data rate	300 bps / 600 bps / 1.2 kbps / 2.4 kbps / 4.8 kbps / 9.6 kbps / 19.
	2 kbps / 38.4 kbps / 57.6 kbps / 93.75 kbps / 115.2 kbps
Connection method	COMBICON plug-in screw terminal block
	D-SUB-9 female connector
Connection technology	3-conductor
Serial: RS-485	
Data rate	300 bps / 600 bps / 1.2 kbps / 2.4 kbps / 4.8 kbps / 9.6 kbps / 19.
	2 kbps / 38.4 kbps / 57.6 kbps / 93.75 kbps / 115.2 kbps / 187.5
Connection method	kbps COMPLCON plus in corous terminal black
Connection technology	COMBICON plug-in screw terminal block 2-conductor
Termination resistor	390 Ω (switchable via DIP switches)
Terrimation resistor	150 Ω (switchable via DIP switches)
	2 (switchable via DIP switches)
	coo 12 (cinicinatio Na Bii Gintones)
Vireless	
Interface description	Trusted Wireless
Direction	Bi-directional
Frequency	900 MHz
Frequency range	915 MHz 928 MHz
Transmission power	max. 1 W (adjustable)
Data rate	16 kbps (adjustable)
	125 kbps (adjustable)
	250 kbps (adjustable)
Minimum receiver sensitivity	-112 dBm (16 kbps)
	-105 dBm (125 kbps)
	-102 dBm (250 kbps)
Antenna connection method	RSMA (female)
Security	128-bit data encryption
Functions	
Wireless licenses	Australia
	New Zealand



https://www.phoenixcontact.com/au/products/2702878



Country support	Brazil (ANATEL, ID: 06373-19-06497)
	New Zealand (RCM)
Wireless	
Frequency band	900 MHz

Signaling

Status display	LED supply voltage, PWR (green)
	Green LED (bus communication, DAT)
	LED periphery error, ERR (red)
	3x green, 1x yellow LED (LED bar graph receive quality, RSSI)
	Green LED (receive data, RX)
	Green LED (transmit data, TX)

Dimensions

Dimensional drawing	35 99 99 99 99 99 99 99 99 99 99 99 99 99
Width	35 mm
Height	116 mm
Depth	114.5 mm

Material specifications

Color	green
Flammability rating according to UL 94	V0
Housing material	PA 6.6-FR

Environmental and real-life conditions

Ambient conditions

Degree of protection	IP20
Ambient temperature (operation)	-40 °C 70 °C
	-40 °F 158 °F
Ambient temperature (storage/transport)	-40 °C 85 °C
	-40 °F 185 °F
Altitude	2000 m
Permissible humidity (operation)	20 % 85 %
Permissible humidity (storage/transport)	20 % 85 %
Shock	16g, 11 ms
Vibration (operation)	in accordance with IEC 60068-2-6: 5g, 10 Hz 150 Hz



2702878

https://www.phoenixcontact.com/au/products/2702878

Approvals

Conformity/Approvals	
Conformance	RCM
EMC data	
Electromagnetic compatibility	Conformance with EMC Directive 2004/108/EC
Noise emission	
Standards/regulations	EN 55011 Class B
Mounting	
Mounting type	DIN rail mounting

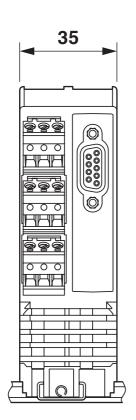
Mounting type	DIN rail mounting
Assembly note	on standard DIN rail NS 35 in accordance with EN 60715

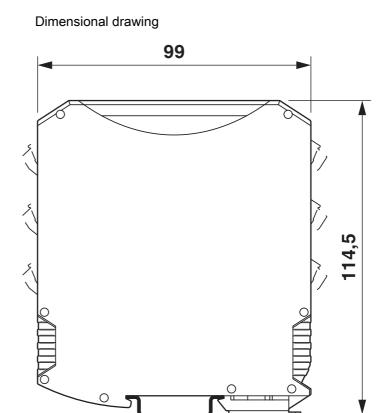


https://www.phoenixcontact.com/au/products/2702878



Drawings



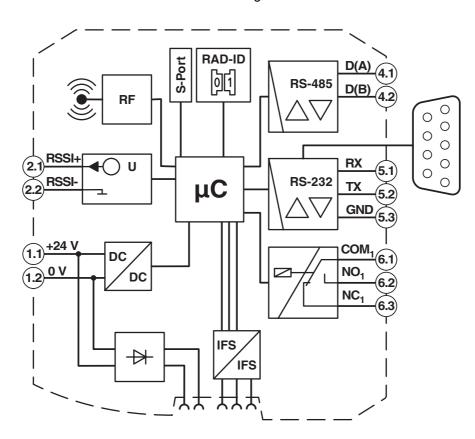




https://www.phoenixcontact.com/au/products/2702878



Block diagram





2702878

https://www.phoenixcontact.com/au/products/2702878

Approvals

To download certificates, visit the product detail page: https://www.phoenixcontact.com/au/products/2702878

ANATEL

Approval ID: 06373-19-06497



2702878

https://www.phoenixcontact.com/au/products/2702878

Classifications

UNSPSC 21.0

	ECLASS-13.0	19170501		
ETIM				
	ETIM 9.0	EC000816		
UNSPSC				

43222600



https://www.phoenixcontact.com/au/products/2702878



Environmental product compliance

EU RoHS

Fulfills EU RoHS substance requirements Exemption	Yes 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)

Phoenix Contact 2025 @ - all rights reserved https://www.phoenixcontact.com

PHOENIX CONTACT PTY Ltd Unit 7, 2-8 South Street Rydalmere NSW 2116 1300 786 411 customerservice@phoenixcontact.com.au