

FCC: This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions:

(1) This device may not cause harmful interference, and

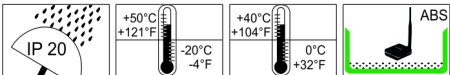
(2) this device must accept any interference received, including interference that may cause undesired operation. Usually this is followed by the following FCC caution: Any changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate this equipment. Contains transmitter module FCC ID: ZGHWIN1

IC: This device complies with Industry Canada licence-exempt RSS standard(s). Operation is subject to the following two conditions:

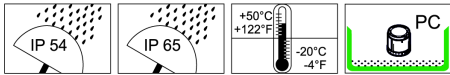
(1) this device may not cause interference, and

(2) this device must accept any interference, including interference that may cause undesired operation of the device. Contains transmitter module IC: 9619AWIN1

860.000.01 860.000.07



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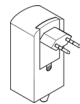


Electrical connection is to be made by trained electrical specialists **only**.



860.000.07

Operation **only** with power adapter included in assembly.



Input: 100-240 V~, 50-60 Hz
Output: 5 V=, I_{max} 2,1 A

1. Safety instructions



CAUTION!

- This device does not replace personnel protective equipment (e.g. safety glasses, feet protection, etc.).
- This system does not take the place or replace any machine guards, machine safety guards, safety devices, safety procedures, or supervision.
- Always test this device, as well as all machine guards and safeguards, to ensure they are functional at start up of each shift.
- Always take machine out of service until worn out parts are replaced.
- Whenever removing guards, always enforce OSHA lock-out / tag-out regulations.
- Please also refer to the instruction leaflet for your WERMA signal tower
- The **WIN** system is not suitable for safety relevant applications.
- For use with 24 V signal towers only.
- Use only with a class 2 power supply (Protective Extra Low Voltage).
- The WIN device must not be used in connection with devices that may directly or indirectly serve health- or life-saving purposes or cause hazards by operation to human beings, animals or asset values.

The described products have been developed in order to assume safety functions as part of an entire plant or machine. The responsibility taken by the manufacturer of a plant or machine implies a safeguarding of correct general function. Moreover WERMA does not assume any liability for recommendations made or implied by this description. From this description new claims for guarantee, warranty or liability cannot be derived beyond the general terms and conditions of delivery.

2. Specifications

WIN	
ISM-frequency	915 MHz, 10 mW
Transmission range	max. 300 m (unobstructed line of sight)

WIN transmitter	
Dimensions	Ø 70 mm x 65 mm
Current consumption	40 mA (max. 430 mA)
Operating voltage	24 V AC/DC
Number of signal elements	max. 4

Supply voltage

1. Passive power supply:

If at least one signal tower is always active, the **WIN transmitter** does not need an additional power supply.

2. Active power supply:

If there is no passive power supply (e.g. blinking light mode via PLC), the **WIN transmitter** needs a permanent operating voltage, which should be connected to pin 5 (24 V AC/DC).

WIN transmitter performance	
Dimensions	Ø 70 mm x 65 mm
Current consumption	40 mA (max. 430 mA)
Operating voltage	24 V AC/DC
Number of signal elements	max. 4 (max. 3 tiers for status monitoring and max. 1 tier with counter input)
Counter impulse	max. 10 Hz under the following conditions: - WIN software is running and the database is connected - WIN transmitter performance has a permanent power supply - Wireless connection between the units

Counter input	tier 4 (pre-assigned), can be changed in WIN software
Supply voltage	
Active power supply: The WIN transmitter performance needs a permanent operating voltage, which should be connected to pin 5 (24 V AC/DC).	

WIN transmitter control

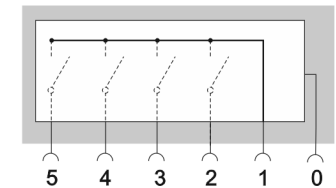
Dimensions	Ø 70 mm x 65 mm
Current	70 mA (max. 2 A)
Current consumption per output	Continuous: 750 mA Peak (10 ms): 3.6 A Minimum: 0.1 mA
Operating voltage	24 V AC/DC
Number of signal elements	max. 4

Supply voltage

Active power supply:

The **WIN transmitter control** needs a permanent operating voltage, which should be connected to pin 1 (24 V AC/DC).

Pin 1 can be switched through to the terminals 2, 3, 4 and 5. Depending on the pin assignment of terminals 0 and 1 it is possible to switch to 24 V or 0 V (see drawing).



24 V AC/DC

V+(V-) >
V-(V+) >

WIN receiver

Dimensions	80 mm x 76 mm x 31 mm
Current consumption	max. 100 mA
Operating voltage	USB

Note: The max. length of the USB cable in use with the receiver is 3 m.

The **WIN receiver** does not need an separate-power supply.

WIN ethernet receiver

Dimensions	80 mm x 76 mm x 31 mm
Current consumption	160 mA (max. 800 mA)
Operating voltage	5 V DC (USB)
Fixing	RJ45 (10Base-T/100Base-TX)

Note: The max. length of the USB cable in use with the receiver is 3 m and the Ethernet cable not longer than 100 m.

3.1 Installation

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System requirements: Windows XP, Windows Vista, Windows 7, Windows 8 or Windows 8.1. The installation requires the user to have administrator rights on the PC.

1. Download the current software: www.werma.com/win.
2. Extract the download and double-click on the extracted file. The installation process will start automatically.



3. Follow the instructions.
4. After the successful installation, please start the software.
5. Follow programme instructions until the configuration is complete.
6. The pre-configured **WIN transmitter/WIN transmitter performance/WIN transmitter control** can now be integrated into your signal towers. (see mounting 4.1).

Note: For additional information, please read the manual on the DVD.

3.2 Installation

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Note: The **WIN transmitter/WIN transmitter performance**, which are contained in the assembly of **WIN system/WIN complete** are already pre-configured.

1. Start the WIN-Software.
2. Disconnect the USB connection between the **WIN receiver** and your PC.
3. Connect the **WIN transmitter/WIN transmitter performance/WIN transmitter control** via USB to your PC.
4. Follow programme instructions until the configuration is complete.



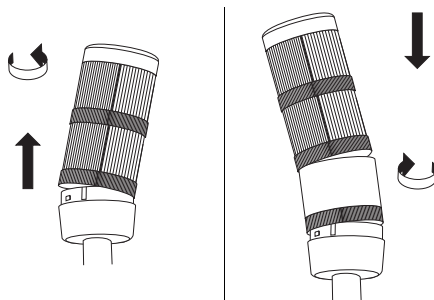
5. If there are more **WIN transmitter/WIN transmitter performance/WIN transmitter control** to configure, please repeat the process from step 3 onwards.
6. Disconnect the **WIN transmitter/WIN transmitter performance/WIN transmitter control** from your PC and re-connect the **WIN receiver**.
7. The **WIN transmitter/WIN transmitter performance/WIN transmitter control** can now be integrated into your signal tower. (see mounting 4.1)

Note: For additional information, please read the manual on the DVD.

4.1 Mounting

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1. Position the **WIN transmitter/WIN transmitter performance/WIN transmitter control** as the first element of your signal tower. Observe the markings on the housing to connect the element correctly.



4.2 Mounting

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Please note: The ideal wireless connection is achieved if as few objects as possible are in between the **WIN receiver** and the **WIN transmitter/WIN transmitter performance/WIN transmitter control**.

1. Fix the rubber base or the wall bracket to the housing.
2. Screw the antenna on to your **WIN receiver**.



5. LED diagnosis

WIN transmitter WIN transmitter performance WIN transmitter control		
Meaning	LED RED	LED GREEN
No wireless connection with WIN receiver	x	
Wireless connection with WIN receiver		x

WIN transmitter control

The blue status LEDs represent the current state of the individual outputs. These are only active if the external switch is activated.

WIN receiver WIN ethernet receiver

Meaning	LED RED	LED GREEN
No wireless connection with WIN transmitter/WIN transmitter performance/WIN transmitter control	x	
Wireless connection to at least one WIN transmitter/WIN transmitter performance/WIN transmitter control		x

WIN ethernet receiver

Green LED Ethernet Port			
Meaning	Off	On	blinking
No connection to the network	x		
Connect to the network		x	
Network Activity			x

Yellow LED Ethernet Port			
Meaning	Off	On	
No connection to WERMA WIN	x		
Connection to WERMA WIN		x	

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