# WIRELESS SOLAR BELL - GONG

# BZ914

**with a SOLAR CELL** (through suitable collocation you will achieve a constant operation without caring about batteries) **and a TWO-WAY COMMUNICATION** (guarantees the reliability of signal transmission by confirmation of signal reception sent back by the receiver, a red diode will blink on the press-button).

## RECOMMEND RECEIVER COLLOCATION

Fig.10 on the inner window sill

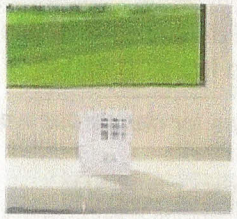
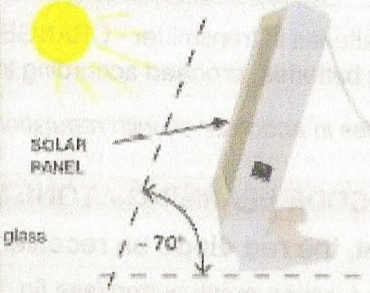


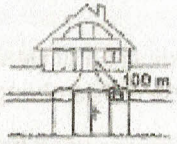
Fig.11 pasting it directly on the glass


Fig.12 fitting on window frame

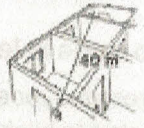
Fig.13 solar panel inclination



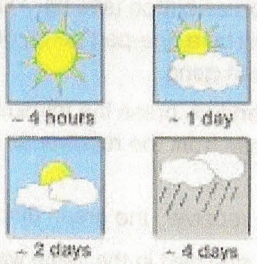

Range in building made of bricks




Range in a ferroconcrete panel building




Recharging time after the first weak batteries signal:




Note: In full battery discharge the recharging time gets prolonged up to double the time!

The set range can be up to 300m in open area. In built-up area it is decreased due to electromagnetic interference.

## TECHNICAL DATA

| Receiver | |
|---|---|
| Power supply | 3x1.2V/600mAh, AAA |
| Communication type | two-way, 433.92 MHz |
| Consumption | < 10 mA |
| Range | up to 300 m (in open area) |
| Sensitivity | < -102 dBm |
| Loadness | < 85 dB |
| Coverage level | IP20 |
| Working temperature | 0°C at +50°C |

| Transmitter | |
|---|---|
| Power supply | 1x3 V CR2450 |
| Communication type | two-way, 433.92 MHz |
| Wasted | < 10 mW |
| Coverage level | IP65 |
| Battery service life | up to 5 years |
| Working temperature | -20°C to +60°C |

For signalling from multiple locations, it is possible to purchase a spare button BZ910.


**Producer:** ELEKTROBOCK CZ s.r.o.
Branisovice 1,763 Kunin 684 34
Tel./fax: +420 641 230 218
Technical support: dry 2 p.m.!
Mobile: +420 724 081 833


In case of warranty period and after-warranty period service a send the product to the manufacturer's address.

**Guarantee for this product is 2 years**

Date of sale and seller's stamp:

**MetroSolarMatics**
**+254(20)232 4709/4**

# ECOLOGICAL ECONOMIC BZ914

## Wireless SOLAR doorbell

IP65
WATERPROOF PRESS-BUTTON (TRANSMITTER)

3V Battery
(CR2430) with service life up to 5 years INSIDE transmitter

433,92 MHz
WIRELESS TRANSMISSION DIGITAL ENCODING

SOLAR CELL RECHARGING

RECHARGEABLE BATTERY
3 x 1.2 V, AAA

AS
CODE SELF-LEARNING

RANGE IN OPEN AREA

up to 300m

DECLARATION OF CONFORMITY

We, ELEKTROBOCK CZ s.r.o., declare hereby that the product BZ914 is in conformity with the basic requirements and futher provisions of the ordinance 1999/5/ES. Issued on: 1.5.2009

2W
TWO-WAY COMMUNICATION

GONG
SELECTION FROM THREE TONES

ELEKTROBOCK CZ

www.metrosolarmatics.com

## START-UP PROCEDUREU

1) Remove the protecting sticker on transmitter battery cover according to fig. 2, 3.
2) Check the battery polarity in transmitter (see fig. 6, 7, 8).
3) **After pressing the transmitter button there resounds a three-part GONG with a pleasant reverb.**
4) If the bell does not sound, proceed according to the "Code learning/tone selection" paragraph.
5) Position the receiver (see fig. 10, 11, 12, 13) and transmitter.
6) During the installation of the receiver and transmitter, follow the following instructions:

- **The receiver must be located in a place with direct sunlight at least 3 hours a day (see fig.10, 11, 12, 13)!**
- **Keep the solar panel of the receiver clean (use dry soft cloth for cleaning)!**
- **The receiver aerial of the receiver (see fig. 1) guarantees safe signal range and must not be shortened or otherwise deformed!**
- **Install the receiver more than 1.5 m far from sources of electromagnetic interference (TV, PC)!**
- **The transmitter must not be located on a metallic base!**
- **To not locate the receiver near power conductors and big metallic objects!**

## RECEIVER DESCRIPTION

Fig.1 receiver

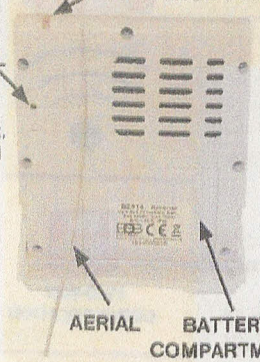



Fig.2 safety sticker collocation

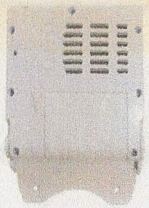


Fig.3 safety sticker removal

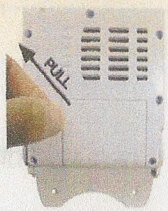
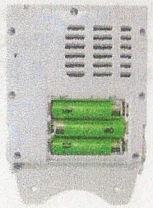



Fig.4 battery cover removal


Fig.5 battery collocation




| diode indication on receiver | blinks 1x per 1 sec | blinks 1x per 2 sec | blinks 1x per 15 sec | stays lit for 2 sec |
|---|---|---|---|---|
| red | code learning regime | code not learnt (empty memory) | weak batteries in receiver | memory erased |
| green | / | / | normal operation | / |
| orange | / | / | weak batteries in transmitter | / |

**Batteries must always be inserted! While changing them, keep the correct polarity!**

## TRANSMITTER DESCRIPTION

Fig.6 opening

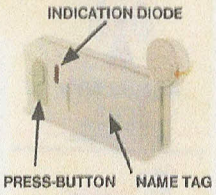
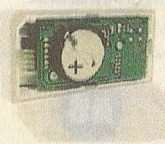



Fig.7 closing

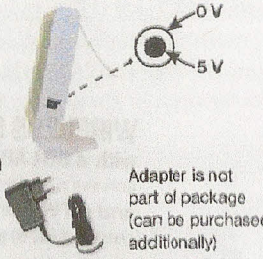
Fig.8 battery polarity



**If the bell does not ring or if you want to select a different tone, proceed according to the "CODE LEARNING/TONE SELECTION" article.**

## BATTERIES IN RECEIVER

Included in the package there are NiMH batteries, 3x1.2V / 820 mAh, AAA type with very low self-discharge rate, which must be always inserted! Indication of weak batteries on receiver - RED diode blinking 1x per 15 s. In case of correct collocation, the batteries are automatically recharged from the solar cell (see fig.10, 11, 12, 13).
Adapter is not part of package (can be purchased additionally) If the minimum sunlight requirements are not met, we recommend to recharge batteries in receiver through external power supply, type ADO5 (adapter 5V/2.5A, DC, at www.elbock.cz , supply number 1998).




## BATTERIES IN TRANSMITTER

Indication of weak batteries in transmitter - ORANGE diode on transmitter blinks 1x pe 15s. While changing batteries, proceed according to fig. 6, 7, and 8.

*Dispose used batteries in accordance with regulations for dangerous waste handling!*

## CODE LEARNING / TONE SELECTION

**If no code is learnt, the red diode on receiver blinks 1x/2s!**

a) Press the receiver function press-button (see fig. 1) briefly (for 1.5 s). The red diode will start to blink (1x/1s) and the receiver is ready for the code learning (learning code

b) Press the receiver function press-button (see fig. 1) again (for 0.5 s) to select tone. After the first pressing, there will be a one-part gong, on another pressing a two-part gong and on third pressing a three-part gong.

c) After the selected tone has ended, press the transmitter button. Diode on the transmitter will blink, if it receives a response from the receiver as a confirmation of signal reception and code storing.

d) After storing the code in the receiver, the green diode blinks on the receiver (1x/15s).

e) While learning other codes, proceed in the same way - repeat steps a) through c).

Note: it is possible to learn up to 16 codes (different press-buttons - receiver), each next (17th) code automatically overwrites the first code!

**! If a learning code is not sent in 30s (by pressing the transmitter button) it is necessary to repeat the procedure a) through c).**

**RESET (memory erasure):**

Press the functional button (see fig.1) for 4s. The red diode on the receiver will blink long, and that makes the memory erased (empty memory is indicate by the red diode on the receiver, which will blink long once per 2s).