SMART COUNTER Installation and Operation Manual

ELECTRONIC VISITOR COUNTER
Manual
Model: Plus IR

Thank you for purchasing an electronic standalone visitor counter of our production. Before using it, carefully read the installation and operating instructions for proper functioning of the device. Keep this manual for future reference.

Please note that improper use of this device may result in injury or damage. Please observe all safety precautions in this owner's manual.

Service and warranty
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Important information

Attention!
- Do not use this apparatus near equipment that produces a strong electromagnetic field, or objects that accumulate static electricity
- Do not drop or subject the device to strong impacts.
- Do not use or store the unit in a place where water or corrosive liquids can get into it.
- Do not use or store the unit in places subject to high temperatures, high humidity, or places where it may be exposed to direct sunlight.
- If the instrument is not used for a long time, it is recommended to remove the batteries
- Make sure that the polarity of the batteries is correct when installing / replacing them

Technical specifications

dimensions	105 x 58 x 18,5 мм
Weight	Not more than 100 g (any of two parts) with batteries
Supply voltage / current consumption	3.0 V DC / no more than 70 μA
Counting capacity	7 LCD segments / 7 bits
Working distance, m	Not less than 4 meters
Battery type	4 alkaline or lithium-ion AAA cells
Operating and storage conditions	From +5 to +45 degrees Celsius / up to 85% relative humidity (without condensation)

Purpose and principle of work

The device is designed to count visitors in closed heated rooms. The device consists of two parts: a transmitter, constantly emitting an invisible infrared ray to the eye, and a receiver receiving this beam. Parts of the device are placed on opposite walls (racks, storefronts, etc.), forming a passage through which it is planned to count visitors. The principle of operation of the device is based on the calculation of events recorded when the infrared ray overlaps the visitor crossing the passage. With the division of readings included, every second event is recorded. The device has protection against interference and does not respond, for example, on a wave of the hand or short-term loss of the beam. Periodically, or at the end of the day, the administrator or the person responsible for taking the readings visually reads data from the receiver's LCD display and manually (manually) inserts them into a notebook or an Excel spreadsheet.

Completeness

- Receiver (part with an indicator) - 1 piece
- Transmitter - 1 piece
- Key-magnet for resetting plastic - 1 piece
- Self-adhesive mounting strips - 2 pieces
- AAA alkaline batteries Cosmos- 4 pieces
- Instruction - 1 piece

Inclusion

To turn on the device, you need to install the supplied batteries in the battery compartment of each of its two parts. To do this, use a Phillips screwdriver to unscrew the battery compartment screw and, observing the polarity (indicated inside the compartment), install the batteries in the receiver. Repeat this operation with the transmitter. The counter is ready for operation. Turn off the meter is not necessary, batteries are designed for about a year of continuous operation

Installation

Recommended installation process to treat the device with the maximum liability, since by this stage depends strongly on the quality of instrument operation as well as safety of the device from a fall or damage.
One part of the device is a transmitter, in which there is only a circular window for the radiator (part without an indicator). The transmitter can be placed on one side of the doorway (passage). The illumination of this side does not matter. To place the transmitter on the wall are self-adhesive mounting strips, which are included in the delivery. Tear protective tape from one of the sides of the rectangle, and one of the strips without touching the hands of the adhesive layer, gently glue it to the transmitter by the label with a serial number. Then, also carefully remove the protective tape from the adhesive layer on the other hand the mounting strip and press it onto the selected portion of wall. To choose the location of the receiver (the part with the indicator and the photodetector) it is necessary to be treated more carefully. It is desirable that the photodetector does not get sun rays and powerful or flickering (flashing) illuminators. Therefore it is better if it is a less lit side of the aisle. The receiver must be placed in such a way that the alignment of the emitter and the photodetector (the little round windows in the middle of each of the parts of the device) was the highest. The deviation from the axis in any direction within 20 degrees is allowed. At greater deviations from the transmitter beam photodetector meter performance over long distances (more than 2.5 meters) is not guaranteed. There should be no obstacles between the transmitter and the receiver, for example, glass (doors, storefronts). In the case of glasses or similar obstacles between the receiver and the transmitter, the working distance declared in the technical data is not guaranteed.
The receiver is fixed to the wall using a second mounting strip in the same sequence as the transmitter. If the receiver is correctly installed, the indicator (circle on the LCD in the left segment) turns on in front of the transmitter. If the circle is not turned on after the installation, it means that the receiver "does not see" the transmitter, and the installation was not done correctly.

Correct installation (figure)

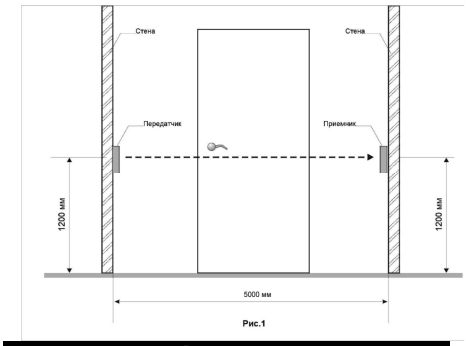


Рис.1

Please note

Do not install the device:

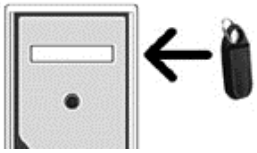
- on anti-theft acoustic and electromagnetic systems (on radio frequency ones) and at distances closer than 0.7 meters from them. Before installing on the gates of the anti-theft system, please specify its type. The device itself does not interfere with the operation of the systems, but the systems of these types can interfere with the operation of the device.

- on plastered, painted with emulsion, oil, etc. Paints, concrete or wooden walls and other rough surfaces with the supplied self-adhesive mounting strips. To install the device on such surfaces, it is necessary to purchase optional fasteners. Installation with mounting strips should only be done on a low-fat, smooth glass, metal or plastic surface.

- for the windows of the windows. It is allowed to install the device behind the transparent windows of the windows, provided that the front panels of the device are positioned close to the glasses opposite each other, at distances not exceeding 2 meters.

Resetting the readings

Resetting the readings is done using the supplied keychain magnet. Bring the keychain to the side of the right side of the receiver and hold it near it for 4 seconds. The meter reading will be reset. While holding the keyfob near the indicated point, the display will show the inscription «СБРОС».



After reset, the display will show the number "0".

Function of division of indications

The device provides a function of dividing the indications by 2, for rooms with one input / output. This function will allow you to count the visitors, rather than the total number of input-output events, which you need to split in half to determine the number of visitors in many similar systems at the end of the day. When the function of dividing the readings is switched on, the symbol "-" is displayed in the left sign,

Attention! The division function in the instrument is switched off (factory setting)

In order to include a divider in the device, you will need:
1. Screwdriver Philips N1 ("cross" - for screws of small size)
2. Instrument receiver (part with indicator)
If you doubt your ability to correctly perform the actions described below, we ask you to contact your dealer or our technical center.

Sequencing:

1. Unscrew the screw on the battery compartment of the receiver.
2.Remove both batteries. Please note, if you remove the batteries, all current readings will be reset.
3. Unscrew the 4 screws around the perimeter of the back of the device housing. Two of them are on the outside, two you will see when you remove the battery cover.
4.Remove the back cover of the device housing. You will see inside the circuit board. To switch the mode of the divider is a jumper (computer jumper).
5. Move the jumper to another position (remove).
Information on the state of the jumper:
The jumper is closed - the divider is off.
The jumper is open - the divider is on.
Please note that if you switch the divider with the batteries connected, it will not switch without resetting the device. To perform a reset, you must remove and then insert the batteries back.
6. Put the lid back on its original place without any effort.
7.Shack back the 4 screws of the housing cover.
8. By observing the polarity (indicated inside the compartment), install the batteries in the battery compartment.
9.Close the battery cover.
The function of dividing the readings by 2 is active.
To turn off the function of dividing the readings by 2, perform the operations in the reverse order.

Battery replacement

When the batteries are low, the display will show a blinking «РАЗР».
Replacement of batteries is usually not more than 1 time per year. To replace the batteries you will need:
1. Four AAA alkaline or Li-ion batteries
2. Two self-adhesive mounting strips Fix-o-moll
To replace the batteries, gently unclip both parts of the counter from the wall. Remove any remaining scotch from the back of the enclosure. Unscrew the screw for securing the battery compartment using a Phillips screwdriver.
Remove the old batteries.
Observing the polarity (indicated inside the case), install new batteries in the meter. Replace the cover and tighten the screw. Using the strips, glue both parts of the device to its original position.

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If you are unsatisfied with your order in any way, PLEASE CONTACT US before leaving negative or neutral feedback. We will make every effort for 100% satisfaction.