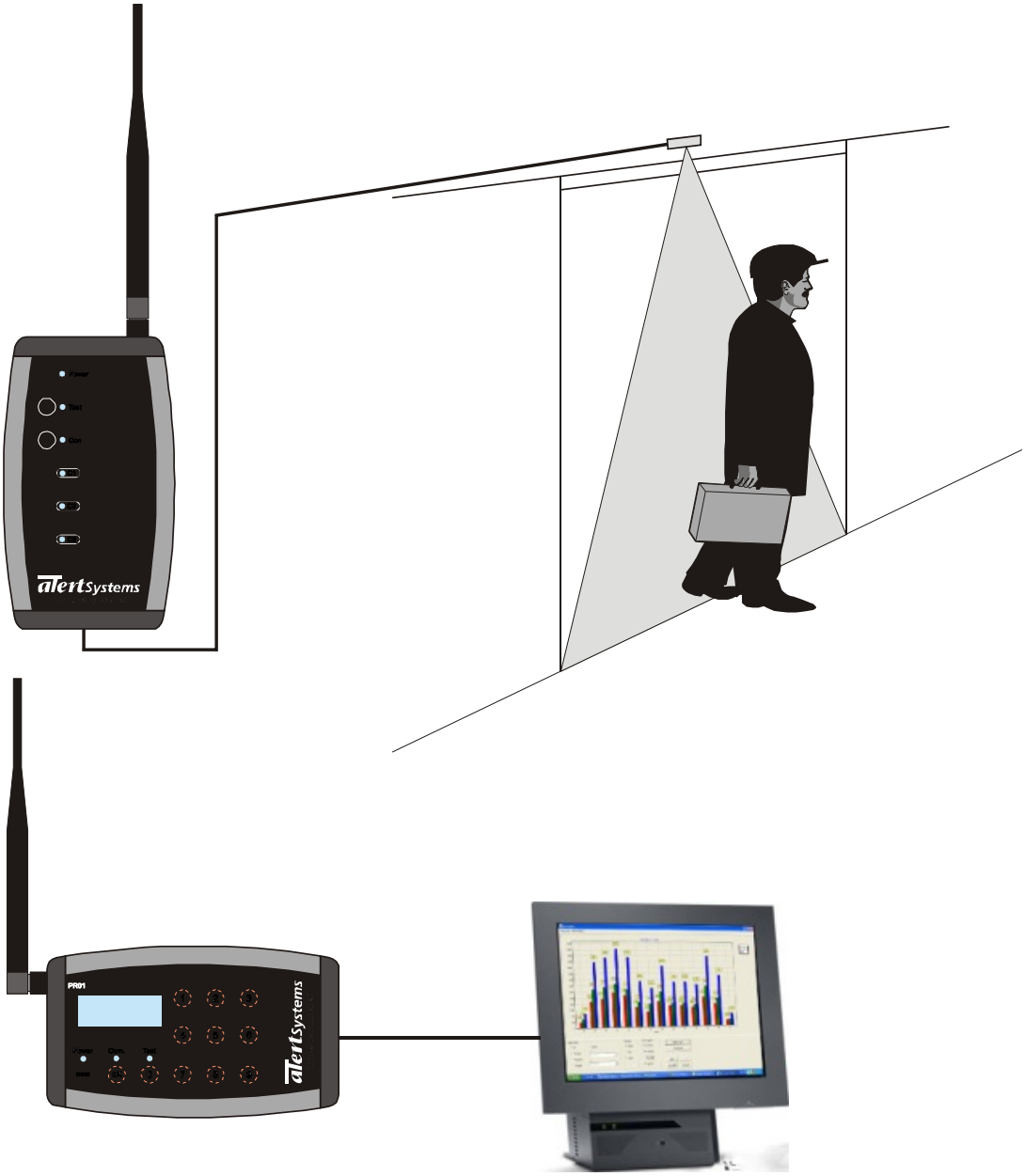
Alpha Security

People Counter System wireless APW01

for connection to a USB Port

Installation and service manual



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1 INTRODUCTION

The wireless ***People Counter*** is an advanced new generation people counter easy to install and easy to use.
Meanwhile in order to make the best possible installation it is important to look through this entire Manual in order to understand which components to choose for the present installation: Are there more doors? How wide are they? What are the distances? Which combination of components is needed to create the perfect solution?
IF you are in doubt pls. do not hesitate contacting us. In order to avoid misunderstandings we kindly ask you to e-mail or fax us and where a drawing can help explaining a job or a problem it will be appreciated.

Best Regards
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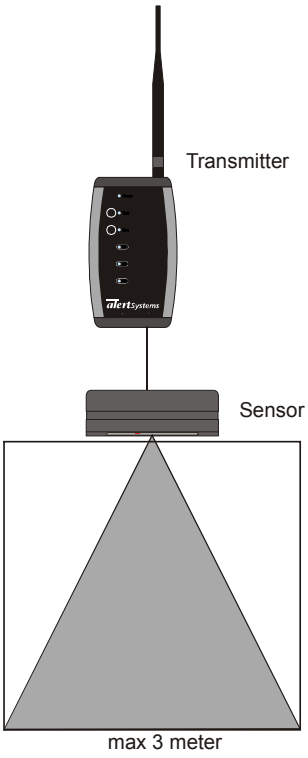
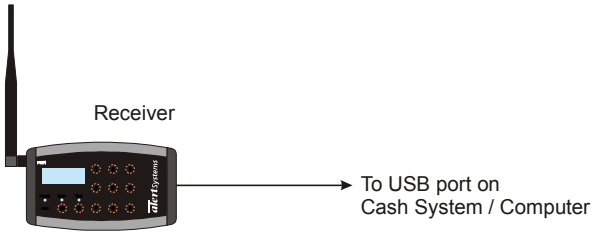
2 EXAMPLES OF INSTALLATIONS

2.1 Basic system





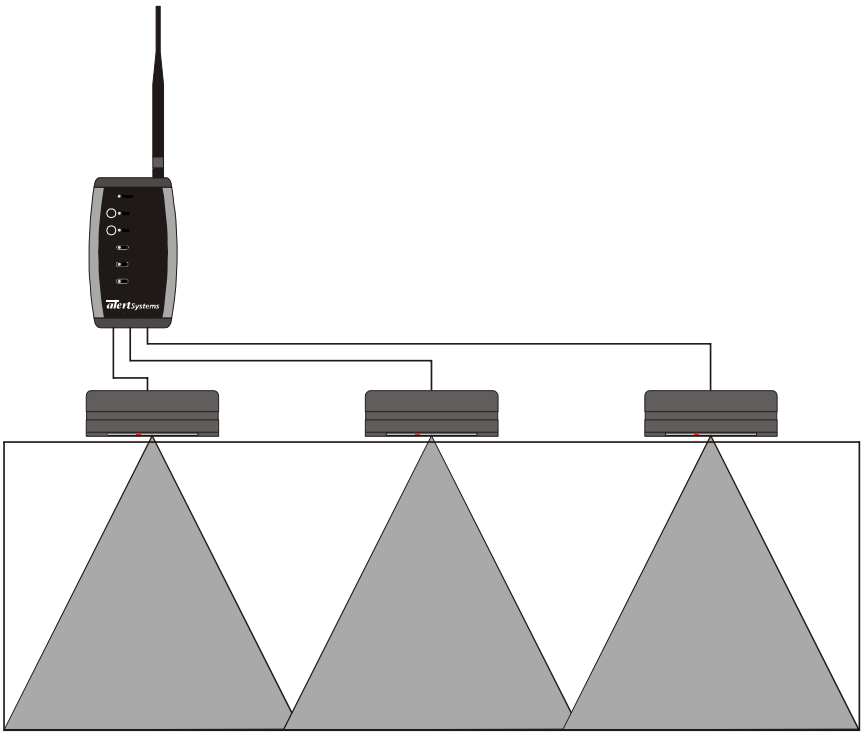
Please note:
Distance between receiver and transmitter is minimum 3 meter and maximum 175 meter

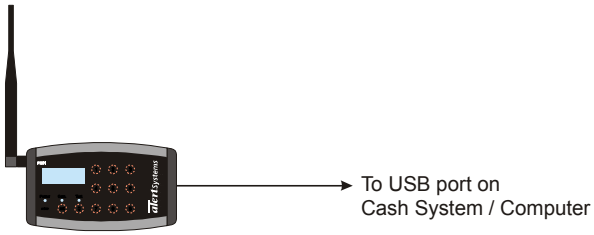
2.1.1 Hardware setup

No adjustments necessary.
Factory settings selected

The software will show:
“Counter 1” = input 1
“Counter 2” = input 2
“Counter 3” = input 3

2.2 Basic system and a wide entrance of 7-9 meter





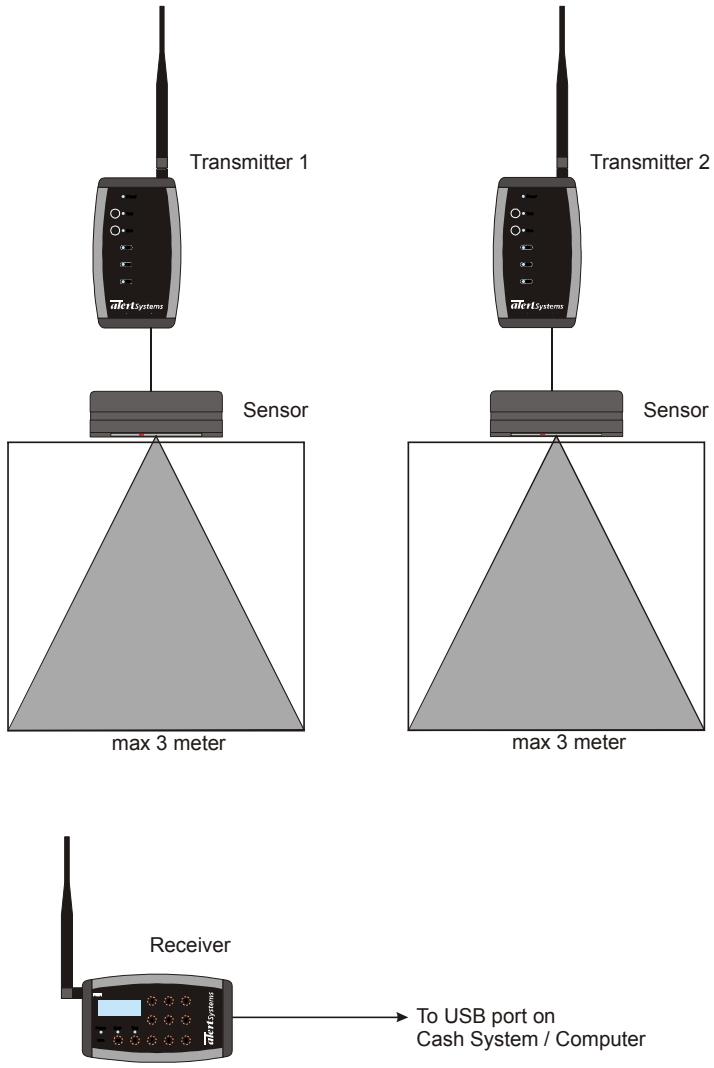
2.2.1 Hardware setup

The transmitter must have a jumper in no. 2 and in no. 5 (See section 5.1)
Install the sensors at input 1, input 2 and input 3

The receiver has the factory settings

The software will show:
“Counter 1” = the sum of input 1, input 2 and input 3
“Counter 2” = 0
“Counter 3” = 0

2.3 Basic system and a two entrances



2.3.1 Hardware setup

Transmitter 1 has the factory setting
Install the sensor at Input 1

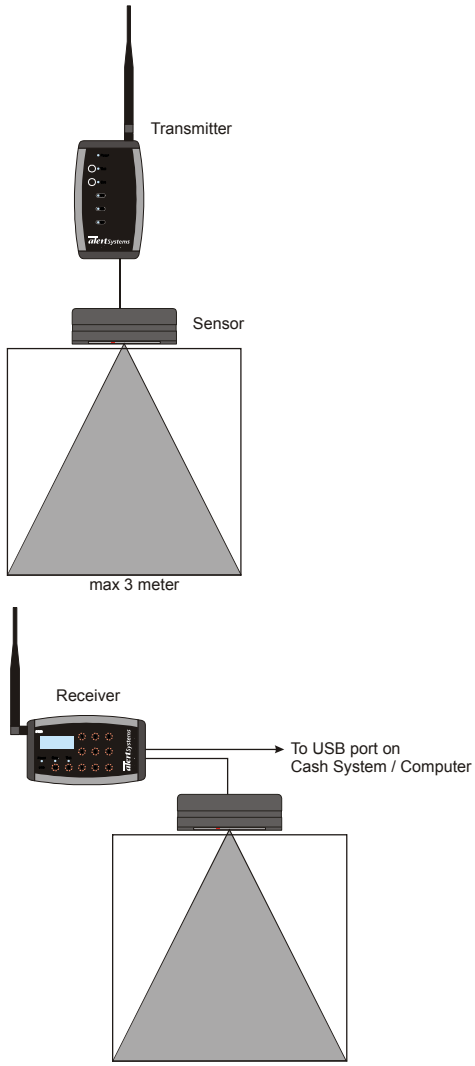
Transmitter 2 must have the jumper in No. 3 (See section 5.1)
Install the sensor at Input 2

The receiver must have a jumper in no. 2 and no. 3 (See section 5.2)

The software will show:
“Counter 1” = the sum of all input 1 in transmitter 1 and transmitter 2
“Counter 2” = the sum of all input 2 in transmitter 1 and transmitter 2
“Counter 3” = the sum of all input 3 in transmitter 1 and transmitter 2

For programming the additional transmitter, see section 5.3

2.4 Basic system with a sensor at the receiver



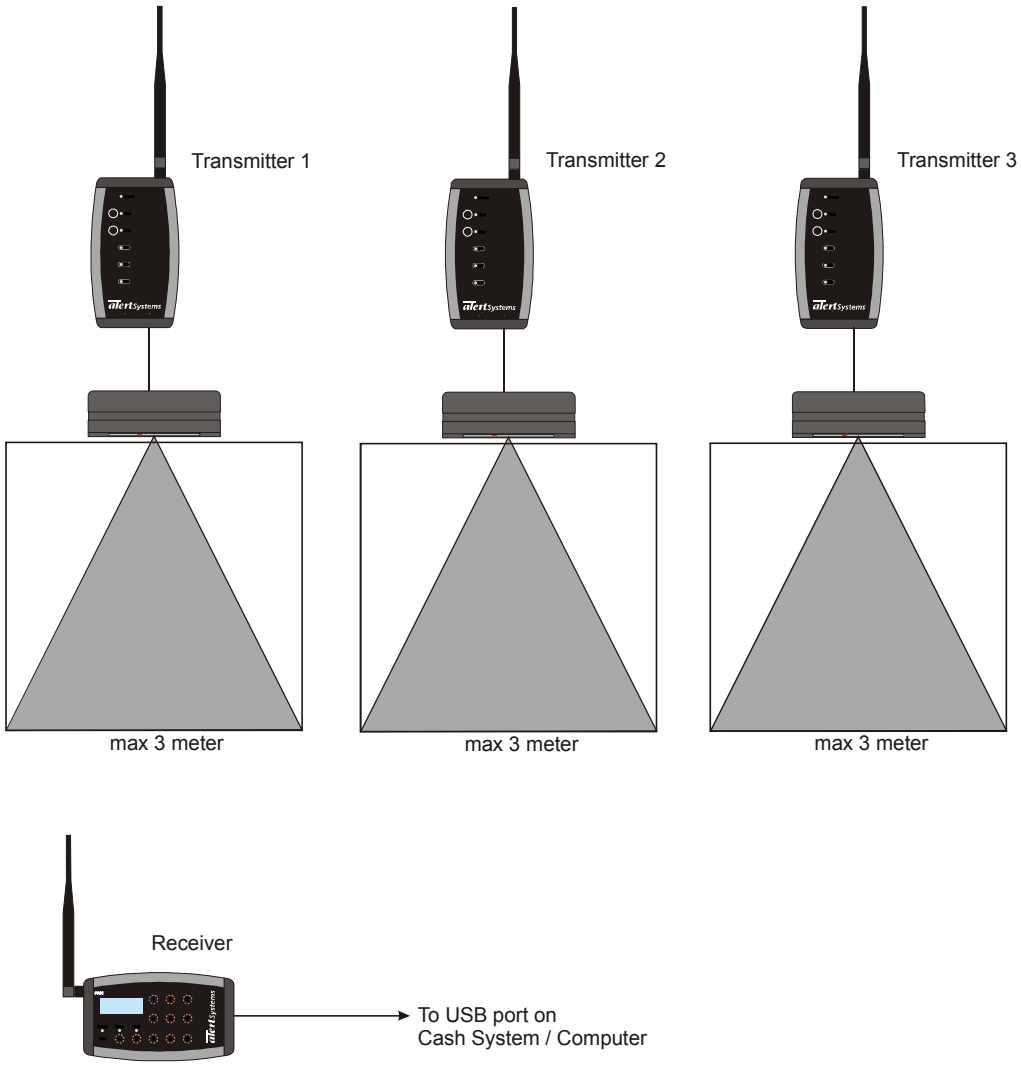
2.4.1 Hardware setup

The transmitter has the factory setting
Install the sensor at input 1

The receiver has the factory setting
Install the sensor at input 2

The software will show:
“Counter 1” = the sum of input 1 in transmitter and receiver
“Counter 2” = the sum of input 2 in transmitter and receiver
“Counter 3” = the sum of input 3 in transmitter and receiver

2.5 System for three independent entrances



2.5.1 Hardware setup

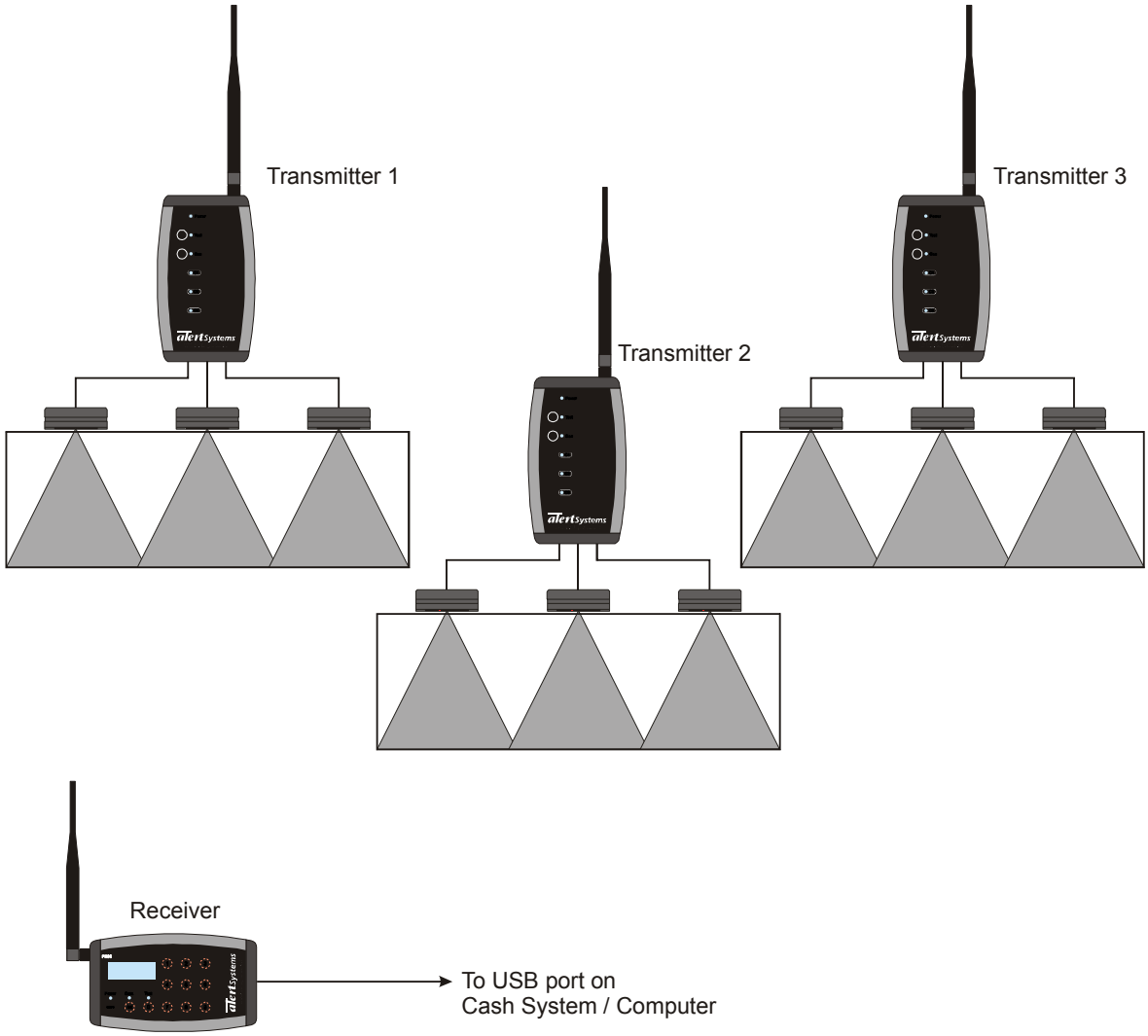
The transmitter 1 has the factory setting
Install the sensor at input 1
Transmitter 2 must have the jumper in No. 3 (See section 5.1)
Install the sensor at input 2
Transmitter 3 must have the jumper in No. 4 (See section 5.1)
Install the sensor at input 3

The receiver must have a jumper in no. 2, no. 3 and no. 4 (See section 5.2)

The software will show:
"Counter 1" = the sum of all input 1 in transmitter 1, transmitter 2 and transmitter 3
"Counter 2" = the sum of all input 2 in transmitter 1, transmitter 2 and transmitter 3
"Counter 3" = the sum of all input 3 in transmitter 1, transmitter 2 and transmitter 3

For programming the additional transmitters, see section 5.3

System for 3 independent wide entrances



2.5.2 Hardware setup

Transmitter 1 must have the jumper in No. 2 and no. 5 (See section 5.1)
Install the sensor at input 1, input 2 and input 3
Transmitter 2 must have the jumper in No. 3 and no. 6 (See section 5.1)
Install the sensor at input 1, input 2 and input 3
Transmitter 3 must have the jumper in No. 4 and no. 7 (See section 5.1)
Install the sensor at input 1, input 2 and input 3

The receiver must have a jumper in no. 2, no. 3 and no. 4 (See section 5.2)

The software will show:
“Counter 1” = the sum of input 1, input 2 and input 3 in transmitter 1
“Counter 2” = the sum of input 1, input 2 and input 3 in transmitter 2
“Counter 3” = the sum of input 1, input 2 and input 3 in transmitter 3

For programming the additional transmitters, see section 5.3

3 RECEIVER INFO

Bottom		Display shows	Meaning
1		CNT:1 xx	Show total count from Sensor 1
2		CNT:2 xx	Show total count from Sensor 2
3		CNT:3 xx	Show total count from Sensor 3
4		* 11:08:29 01/05-2007	Show Date * = Syncronized with the PC watch. From factory Danish time. Force local time by press the bottom 4 in 4 sec.
5			No function
6			No function
7			No function
8			No function
9			No function
0	Press in 2 sec.	T	Test: Transmits data every 10 sec. Automaticaly reset after 16min. to transmit data every hour XX:00 Used for testing the USB connection to the conputer Is seen in the Log file if "Filter duplicate log" in "File Settings General" is not selected
0	Press in 2 sec.		Reset test to normal Transmit data every hour XX:00
		FIFO	Data in receiver that has not been delivered to the software Waiting for connection to be OK

Power LED: ON when connected to power

Com LED: COM lamp shall give a short flash (0.5 sec.) with 5-10 sec. interval.
This means that there is connection to the transmitter.
Long flash (2 sec.) means that there is no connection to the transmitter

Test LED: No use

The receiver will sent data to the software every hour xx:00.

4 TRANSMITTER INFO

On the front of the transmitter box is shown:

“Power”: System is ON

“Test”: TEST lamp is ON when a person is detected both entering the shop and leaving the shop. This means that the transmitter divide the counts with two.

“Con”: CON lamp shall give a short flash with 5-10 sec. interval which indicate that there is connection to the receiver and that the counts is transmitted to the receiver

“C1”: ON when a person passes sensor no. 1

“C2”: ON when a person passes sensor no. 2

“C3”: ON when a person passes sensor no. 3

5 HARDWARE SETUP IN GENERAL

5.1 Transmitter hardware – jumper settings

The transmitter can be setup in different modes.

As standard it is set as “Transmitter no. 1”
This means that the transmitter transmits data with info that the data is from transmitter no. 1
In systems with 3 transmitters the first transmitter is set as “Transmitter no. 1”, the second transmitter is set as “Transmitter no. 2” and the third transmitter is set as “Transmitter no. 3”

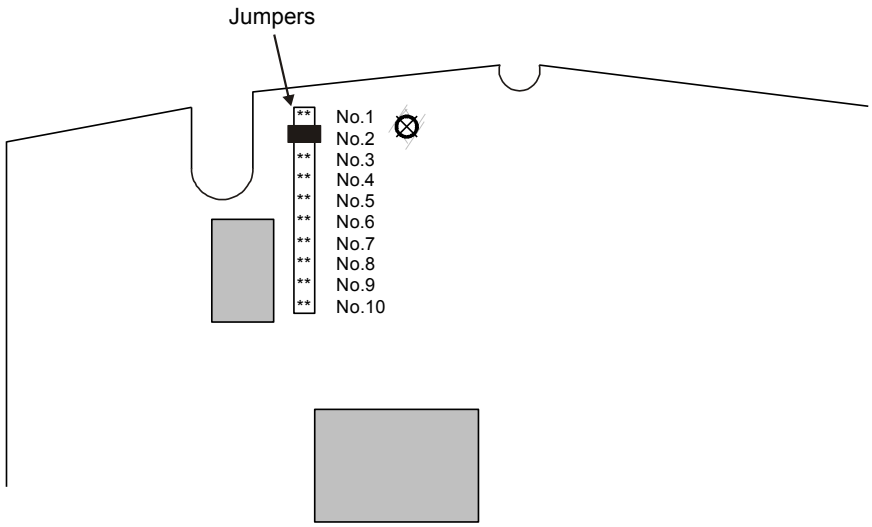
As standard it is set with no jumpers in no. 5, no. 6 and no. 7
In systems with a wide door where two or three sensors are used to cover the opening the info from these sensors can be sent to only one input in the receiver.

By placing a jumper at no. 5 all data from all sensors connected to the transmitter are sent to input 1.
So when you look at the screen only data on “Counter 1” is shown.

By placing a jumper at no. 6 all data from all sensors connected to the transmitter are sent to input 2.
So when you look at the screen only data on “Counter 2” is shown.

By placing a jumper at no. 7 all data from all sensors connected to the transmitter are sent to input 3.
So when you look at the screen only data on “Counter 3” is shown.

The jumpers are placed on the back of the transmitter under the cover.



Jumper	Function
No. 1	Programming mode (**only** to be used when programming)
No. 2	This transmitter is no. 1 (Factory setting)
No. 3	This transmitter is no. 2
No. 4	This transmitter is no. 3
No. 5	sum of input 1-2-3 = input 1 on receiver
No. 6	sum of input 1-2-3 = input 2 on receiver
No. 7	sum of input 1-2-3 = input 3 on receiver
No. 8	No use
No. 9	No use
No. 10	No use

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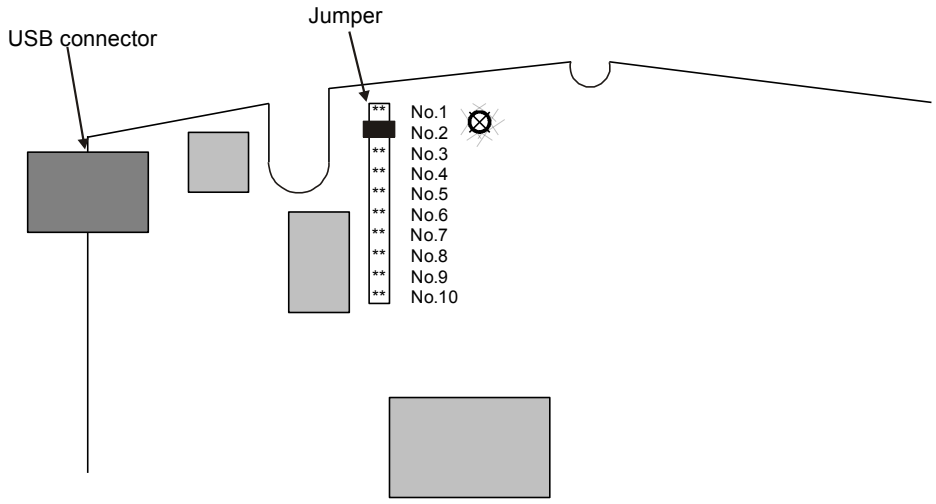
5.2 Receiver hardware – jumper settings

The receiver can be setup in different modes.
As standard there is only one jumper in No. 2 meaning that the receiver receives data from transmitter no. 1
In systems with two transmitters an additional jumper must be in No. 3
In systems with three transmitters an additional jumper must be in No. 4

The jumpers are placed on the back of the receiver under the cover.



Jumper	Function
No. 1	No use
No. 2	Transmitter no. 1 is signed up (The receiver ask for data from transmitter no. 1) (Factory setting)
No. 3	Transmitter no. 2 is signed up (The receiver ask also for data from transmitter no. 2)
No. 4	Transmitter no. 3 is signed up (The receiver ask also for data from transmitter no. 3)
No. 5	No use
No. 6	No use
No. 7	No use
No. 8	No use
No. 9	No use
No. 10	No use

5.3 Additional transmitter

When an additional transmitter is added to the People Counter system do the following:

1. Set the receiver to receive data from the new transmitter, such as Transmitter No. 2 (or No.3)
   Jumper No. 3 (or No. 4)

2. Select the transmitter to be transmitter No. 2 (or transmitter No. 3)
   Jumper No. 3 (or No. 4)

3. Set the transmitter in program mode.
   Jumper No 1

4. Make sure that the distance between the transmitter and receiver is more than 3 meters.

5. Press and hold bottom No. 9.
   If the programming is OK the following message is shown:
   SETTING HOME ID STATUS “OK”

   (If the programming fails the following message is shown:
   SETTING HOME ID STATUS “ERR”)

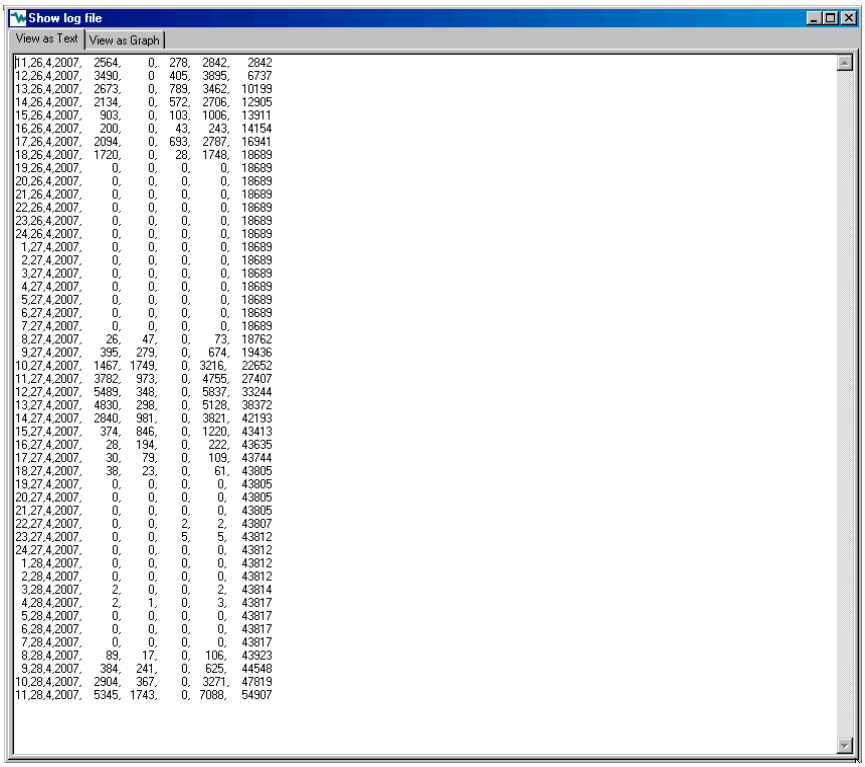
6. Switch the power off

7. **VERY IMPORTANT:**
   Set the transmitter in normal mode
   Remove jumper No. 1

8. Switch the power on and test the system

6 SOFTWARE SETUP IN GENERAL

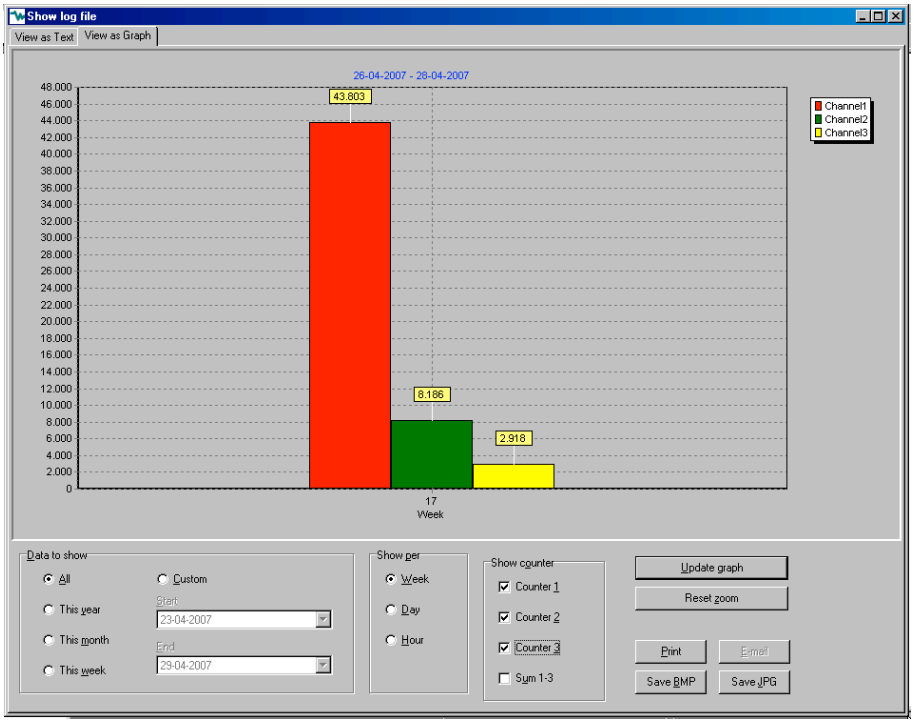
6.1 Log file



An example of a log file.

The following data are shown in the first line:
Hour: 11 for counting between 10 and 11
Date: 26.04.2007
Input 1: 2564
Input 2: 0
Input 3: 278
Sum pr. log: 2842
Sum pr. day: 2842

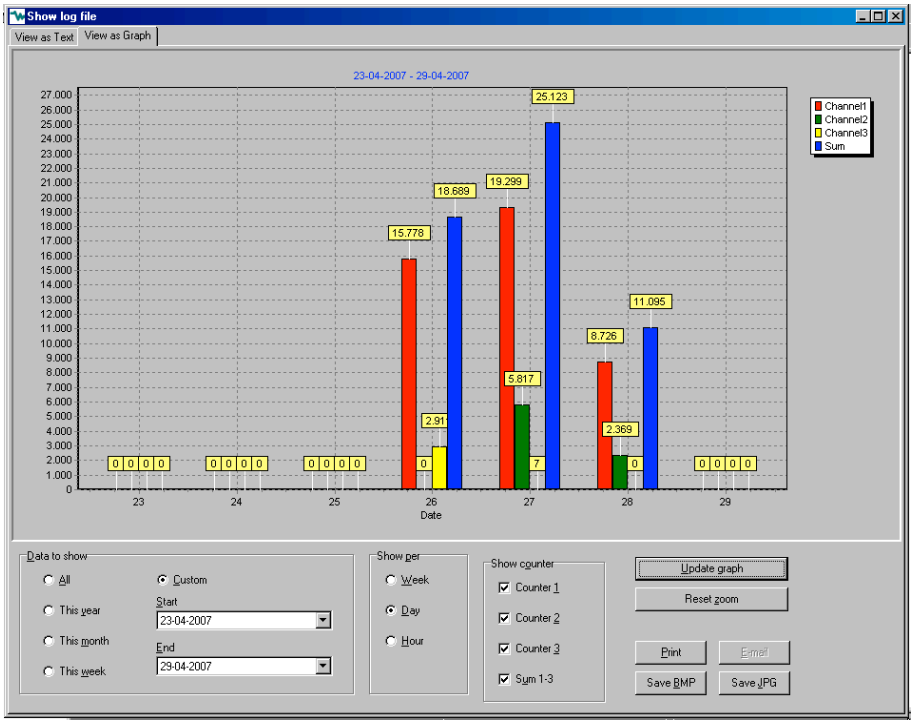
6.2 View log file as graph



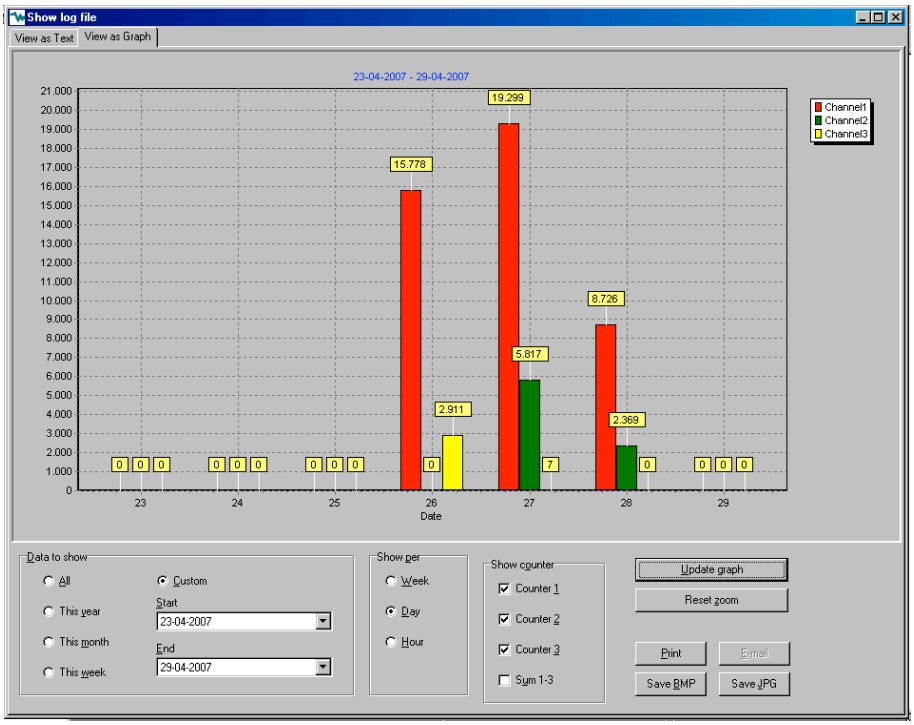
The log file shown as a graph
"All", "Counter 1-2-3" and "Week" are selected.

Point on one of the bars and notice that "All" is changed to "Custom" and the "start" and "End" date is highlighted.
Click on "Update graph"

Select "Day" and click "Update graph"
Select "Hour" and click "Update graph"



Place the pointer to one of the bars and double click.
The “Date to show” switches to “Custom” and you can select which days to show.



All three Counters are selected

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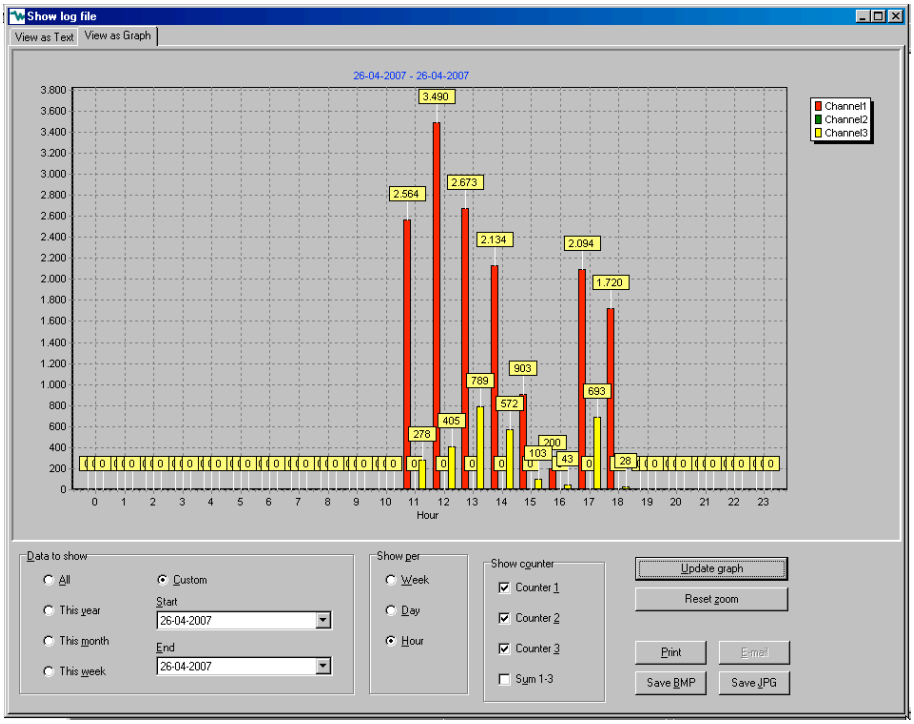
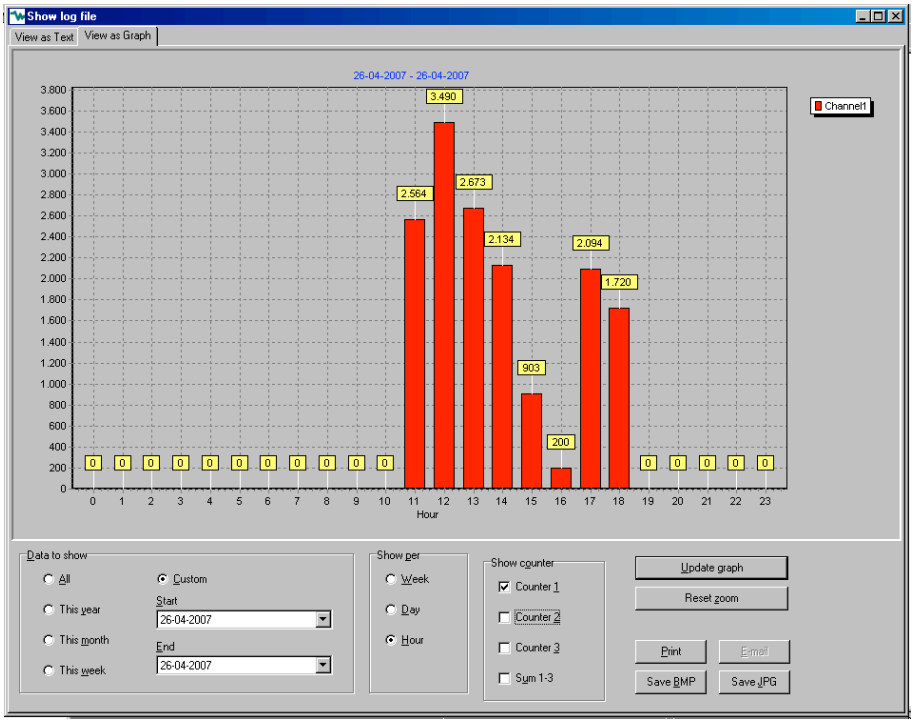


"Hour" is selected



"Counter 1" is selected

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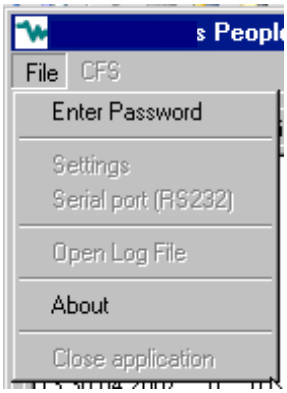
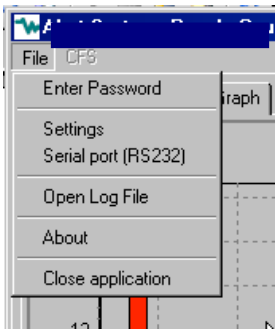
6.3 File setup

6.3.1 Enter password

The password is: multiteknik0102
This password can't be changed

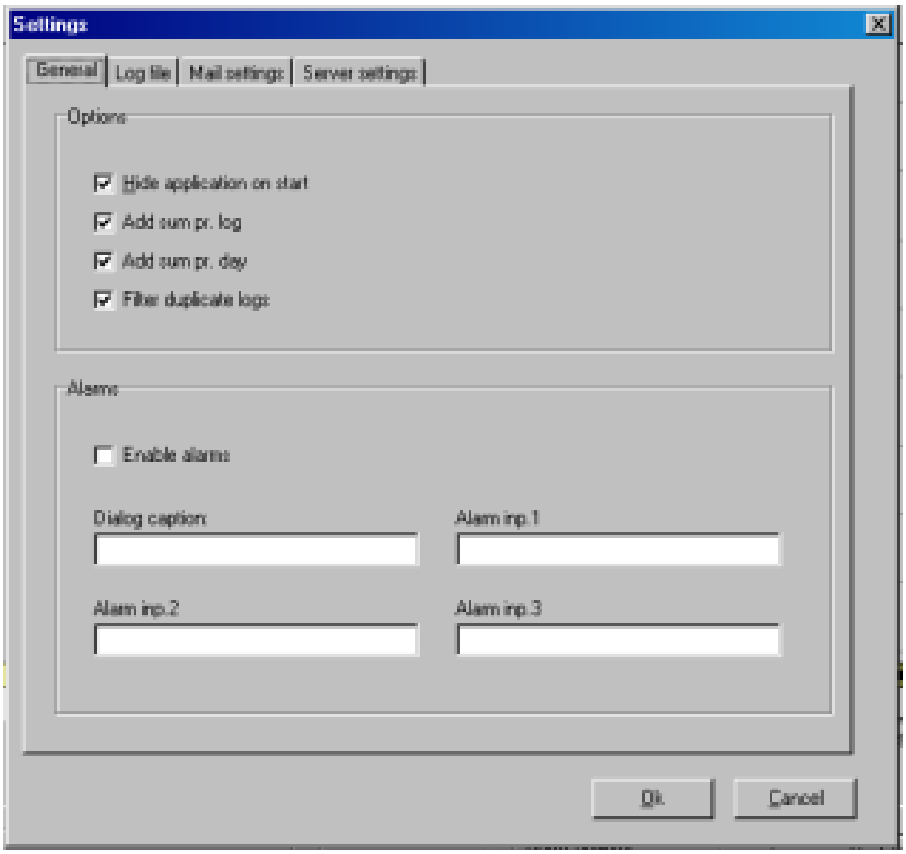




Set the password as blank and click Ok. The software is locked.

This feature is used to secure that unauthorized people can't "play" with the software.

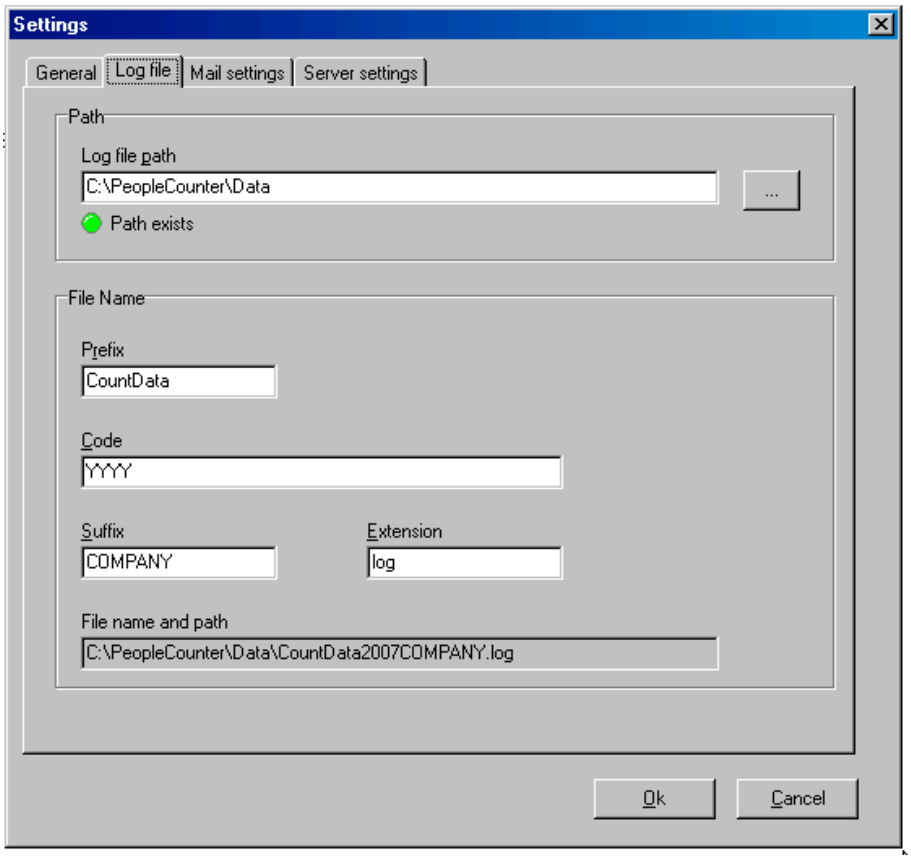
6.3.2 General settings



In “File - Settings - General” the following can be selected:

Options:	Descriptions
“Hide application on start”	Will prevent that the application will be shown on the screen at startup
“Add sum pr. log”	Will add a digit in the log file
”Add sum pr. day”	Will add a digit in the log file
”Filter duplicate log”	Will prevent that two lines in the same hour is recorded This can happened under test of the receiver
Alarms:	Used if a horizontal sensor with reflector is installed. If the beam is broken for a long time by some items an alarm is given as a pop-up picture on the screen to the staff so that they can remove the item
“Enable alarms”	Will enable the pop-up picture
“Dialog caption:”	Text on the pop-up picture
“Alarm inp. 1”	Name of the alarm input 1 on the pop-up picture
“Alarm inp. 2”	Name of the alarm input 2 on the pop-up picture
“Alarm inp. 3”	Name of the alarm input 3 on the pop-up picture

6.3.3 Log file settings

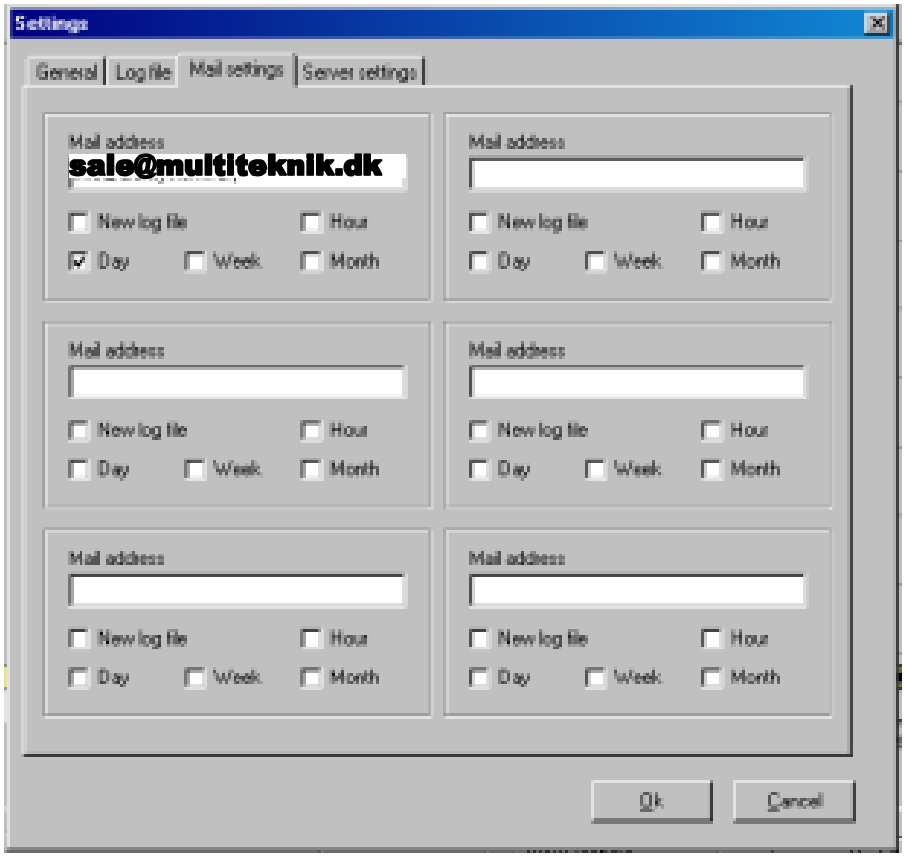


"Log file" can have the date automatic included in the name.

Codes		Example
YYYY	Year	2007
YY	Year	07
Y	Year	7
MM	Month	05
M	Month	5
DD	Day	08
D	Day	8
hh	Hour	06
h	Hour	6

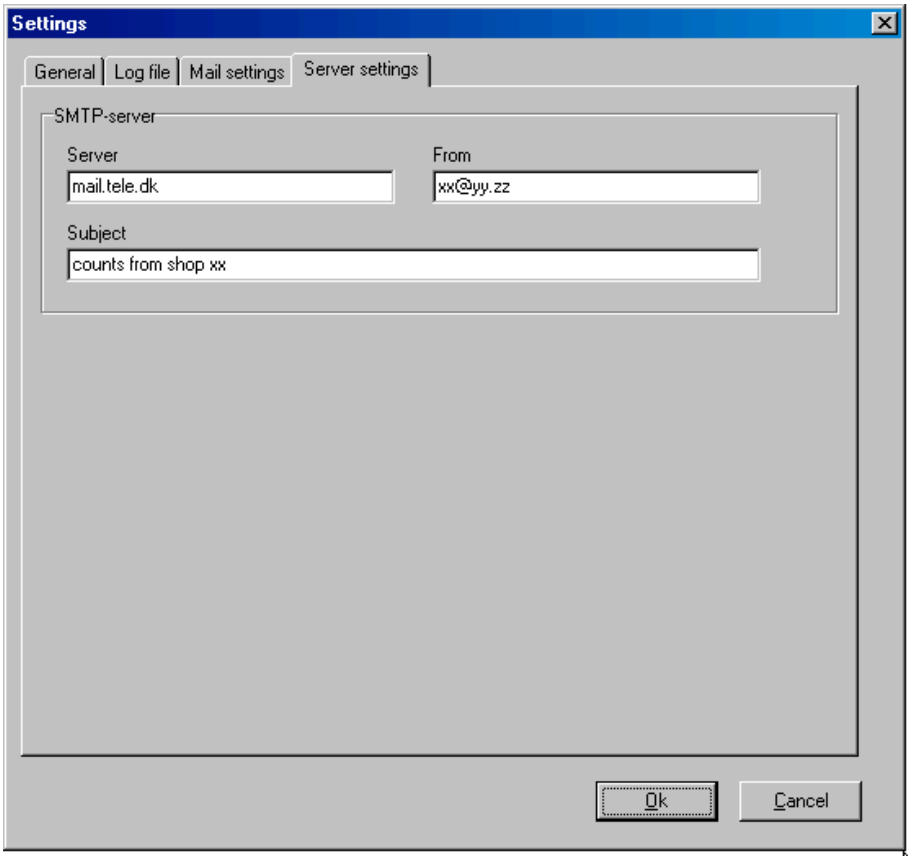
It is recommended using only codes for the year in the log file. This means that there will be one log file for a whole year.

6.3.4 Mail settings



"Mail settings":
The log file can be sent to 6 different mail addresses.
It can be selected how often the log file will be sent.

6.3.5 Server settings



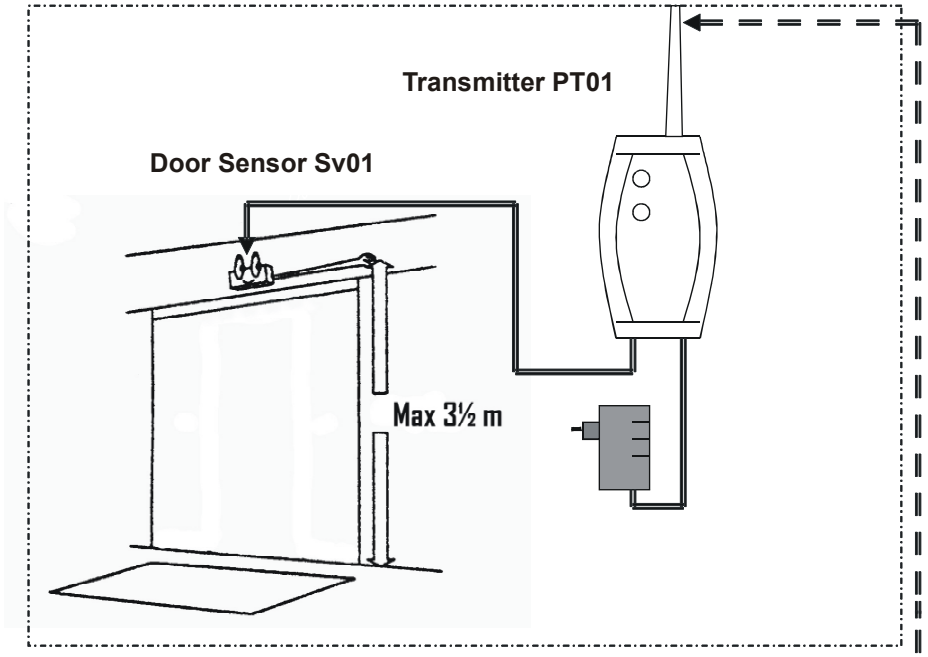
"Server settings":
SMTP server
"Server" Outgoing server address
"From" Info of ex. senders mail address
"Subject" Ex. name of the shop

Now a mail will be send once every day to sale@multiteknik.dk via the mail server "mail.tele.dk".
The mail will have the info:
From: xx@yy.zz
Subject: Counts from shop XX
Attached file: CountData2007COMPANY.log

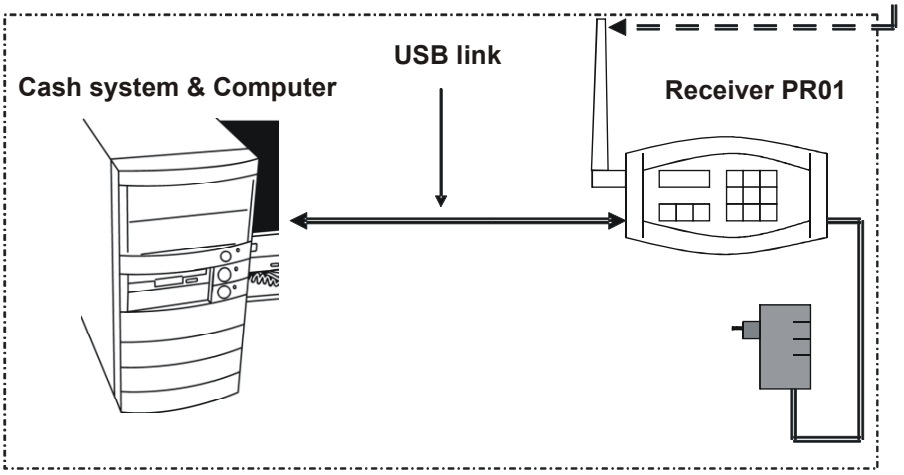
7 HARDWARE INSTALLATION

7.1 Overview over the hardware installation procedure

Step 1 – 11
Transmitter PT01 & Door Sensor SV01



Step 12 – 15
Receiver PR01 & Cash system Computer.



Please note:
Distance between receiver and transmitter is minimum 3 meter and maximum 175 meter

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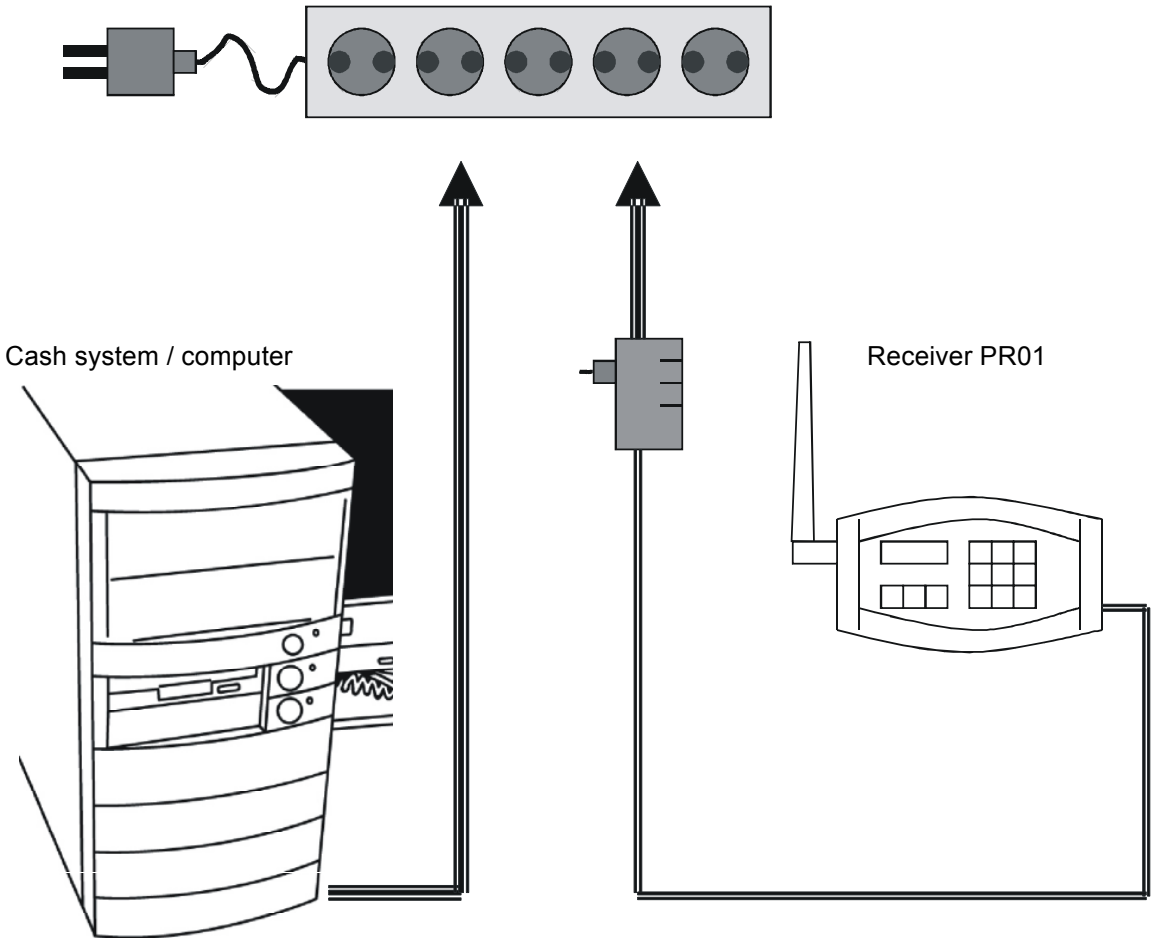
7.2 Important information regarding connection to power

For the sake of back-up battery in the Counter, the Power supply will have to be the same as for the Computer!

Connection to constant Power!

Do not switch off Power!



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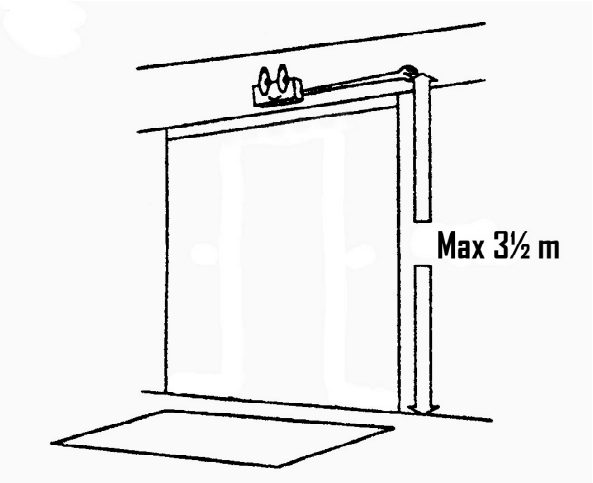
7.3 Transmitter PT01 & Door sensor SV01

Mounting instruction Step 1 – 11

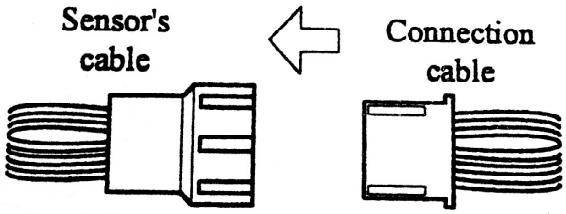
1

Place the Door Sensor SV01 on top side of the doorway.
Do not mount higher than 3½ meter



2

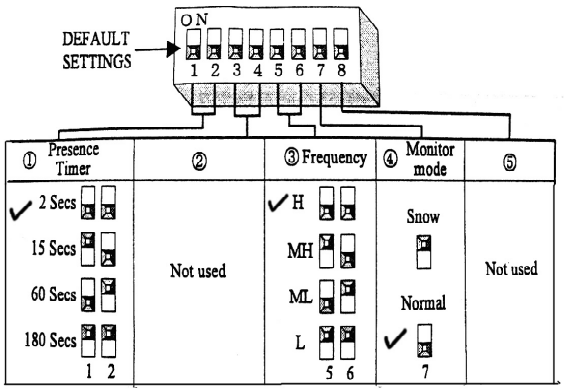
Connect Wiring on SV01. Push connector.



Red & Black = Power
Yellow = Normally Open [NO]
Green = Not use
White = Common

3

Dip switch settings on door Sensor SV01.



Note. When more than two sensors are used in close proximity to each other use alternate frequency settings to prevent interference.

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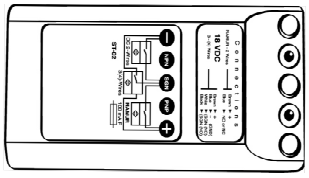
4

Connect Door Sensor SV01 to the tester.
For walk test.

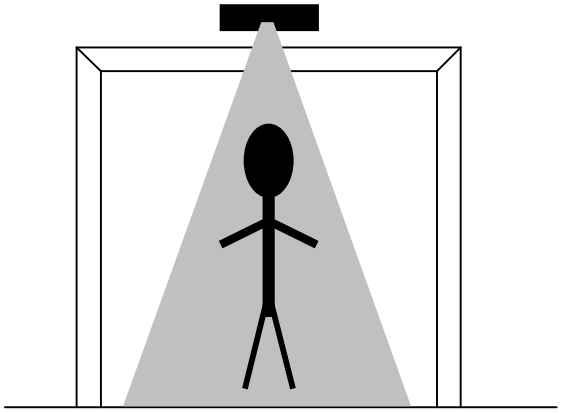
Black Wire => ⊖ on the tester
Yellow wire => SGN on the tester
Red + White => ⊕ on the tester



Tester

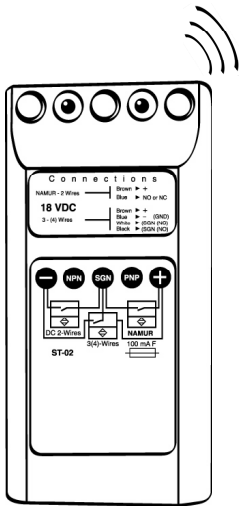
5

Make walk test through the door way.



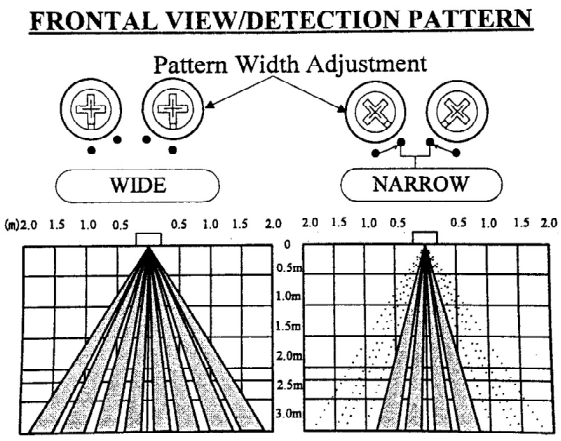
6

When you walk through the door way the tester makes a Beep.
Now you can make the width and sensitivity adjustment.



7

Make Width adjustments for the door way.



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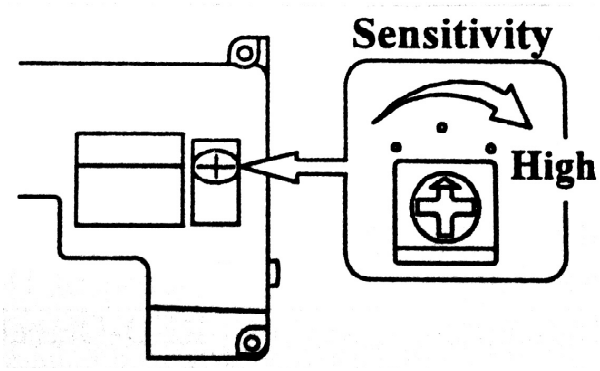
Make sensitivity adjustment.

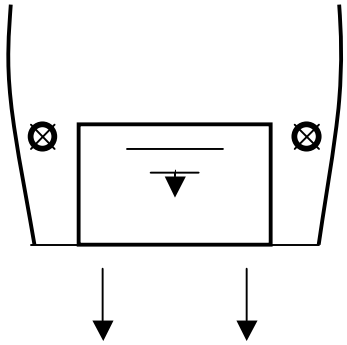
Door sensor SV01



9

Open up the cover on the back at the transmitter box PT01.

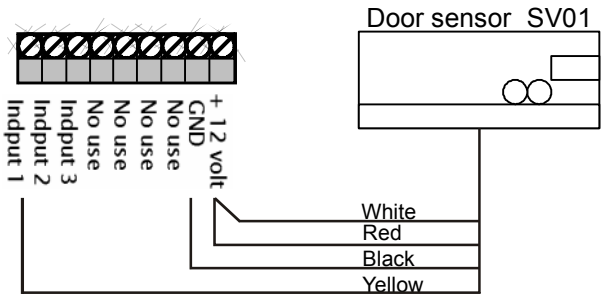
Now you can connect the sensor.



10

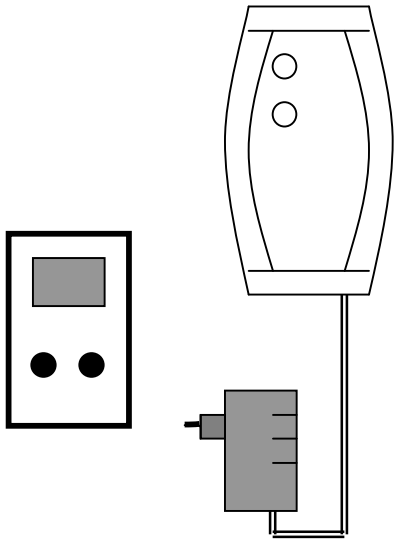
Connect the Door Sensor SV01 to transmitter PT01
Following colors from the Door Sensor SV01 have to be used:
Begin with ”input 1” for Door Sensor No. 1.

Yellow. = Input
Red/White = + 12 volt
Black = GND



11

Connect the 230 volt power supply to the transmitter PT01



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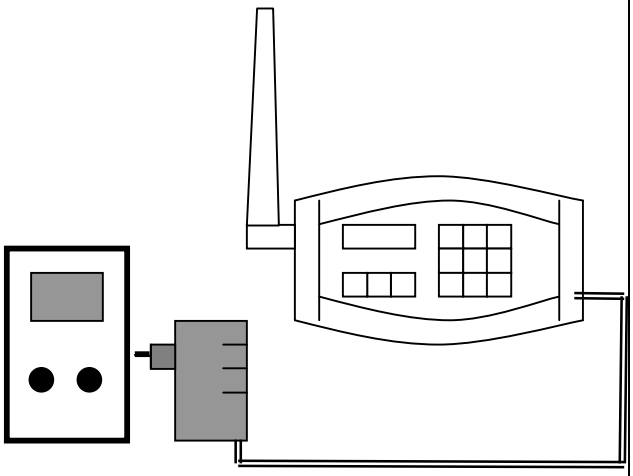
7.4 Receiver PR01 & cash system / Computer

Mounting instruction – Step 12 - 15

12

Connect the 230 volt power supply to the Receiver PR01



13

Test the transmission between Receiver PR01 and Transmitter TR01.

Press the [1] key on the Receiver PR01 to show input 1 in the display.

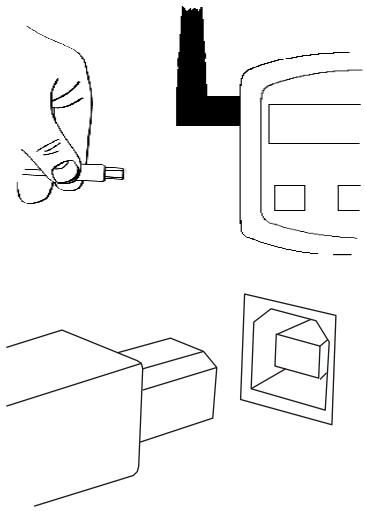
Each 10 sec. you will see short flash on CON at the Receiver PR01
Short flash ½ sec. = transmission is OK.
Longer flash 2 sec. = transmission is NOT OK.

When transmission is OK make walk test through the door way, and note the display at Receiver PR01 update.

14

Connect the USB cable to The Receiver PR01

NOTE: MAKE SURE TO INSERT THE USB PLUG CORRECT!



15

Install the software. See section 8

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8 SOFTWARE INSTALLATION

Minimum system requirements:
Windows 98, Windows 2000, Windows XP, Windows Vista
256MB of RAM
10MB of hard disk space
USB port

Software instructions 16 – 35

16

The USB key contains all necessary software. Connect the USB key to the USB port on the cash system / computer.

17

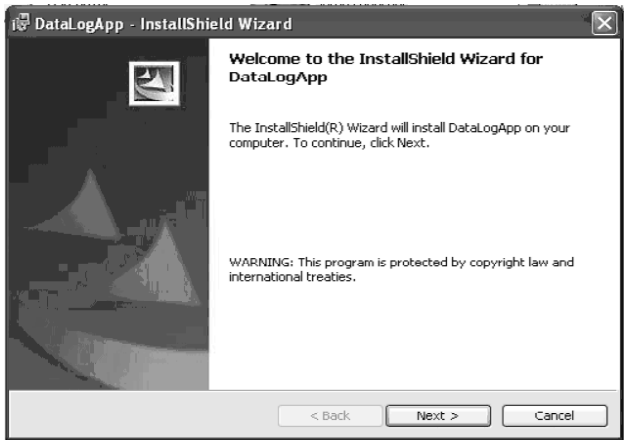
If this pop-up is seen after connection of the USB key, select Cancel.

18

Open “My computer” and find the following file on the USB key and double click on it.

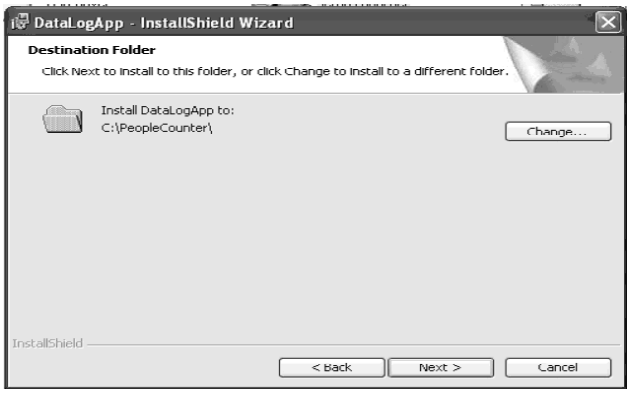
19

Click –Next-



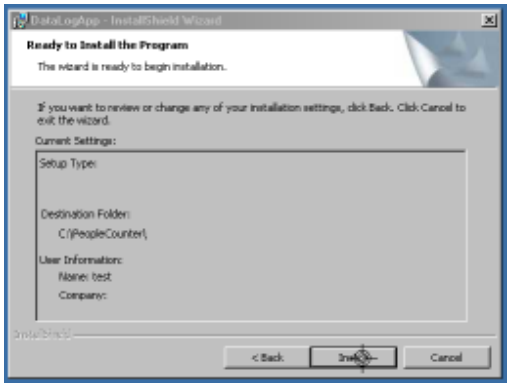
20

Select the folder where the software will be installed.
Click –Next-



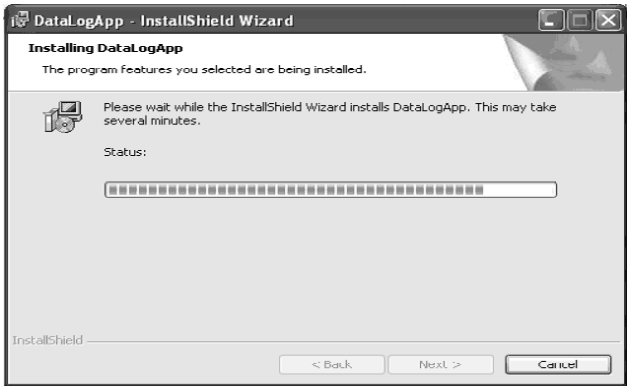
21

Click –Install-



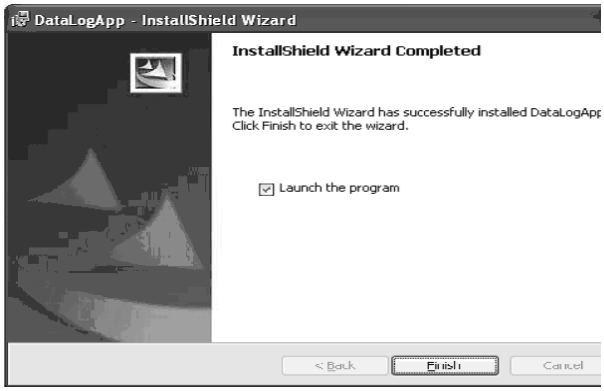
22

Software is installed on the computer.



23

Click –Finish-



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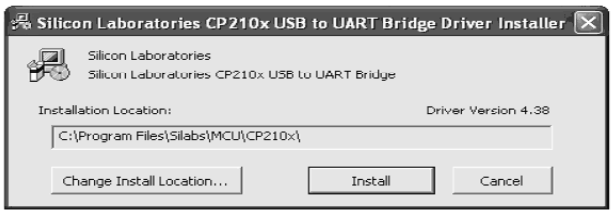
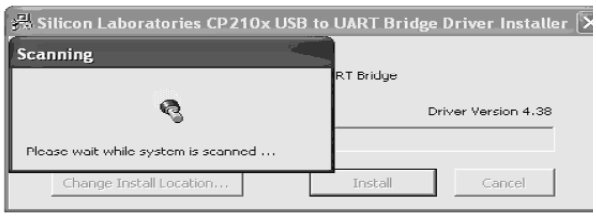
24

Installation of the USB driver
Click –Install-



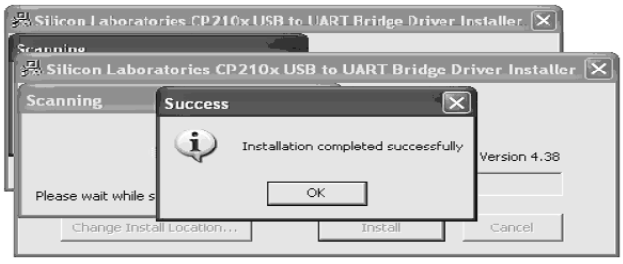
25

Installation begin



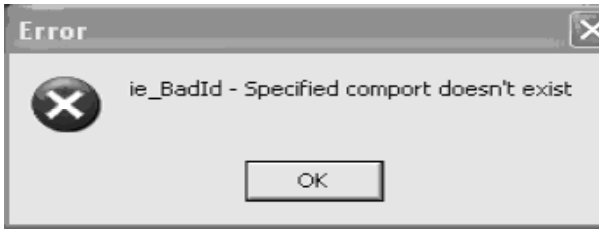
26

Installation completed.
Restart the computer



27

After restart the following Pop-up is shown on the screen.
You have to select the correct USB port.
Click –OK-



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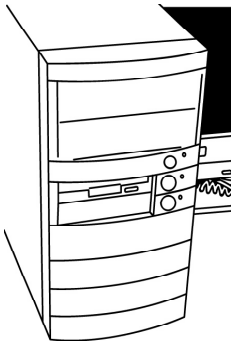
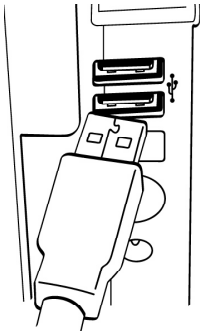
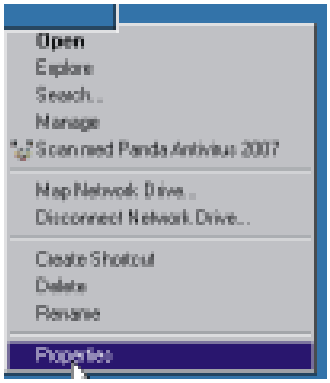
Connect the People Counter to the USB port.
If all USB ports are occupied use a USB Hub





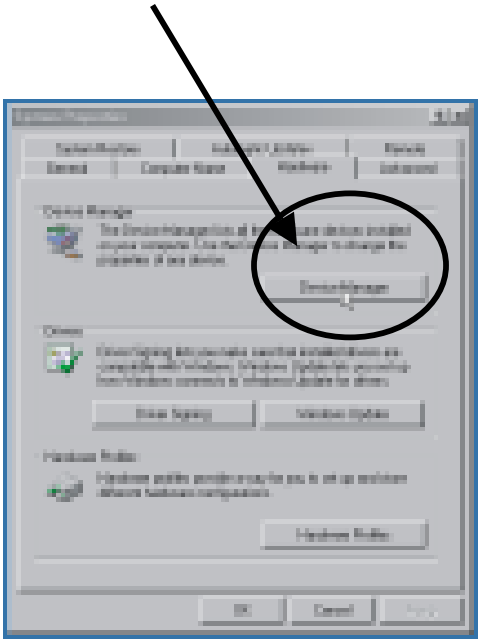
29

To see which comport is selected Right click on My Computer and select –Properties-



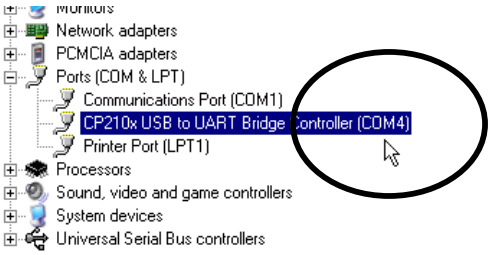
30

Click on –Device-



31

Click on –Port- (COM & LPT)
Notice which Comport is selected.
In this case it is COM4



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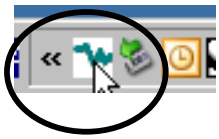
32

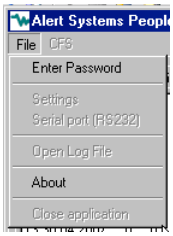
The icon for the new software is placed on the Desktop. Double click on it, and an icon is placed in the lower right corner.
Double click on it and the software will open.



33

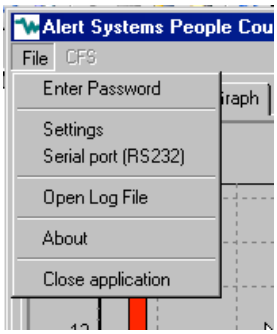
Click on –**File**-
and select - Enter Password
Write: multiteknik0102 and click OK

This password can't be changed



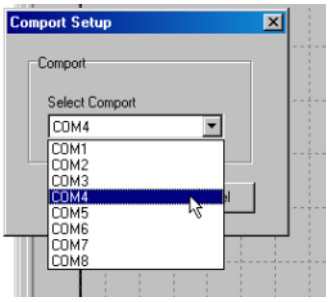
34

Click on –**File**-
and select –**Serial port (RS232)**



35

Select Comport from section 32 and click OK



The software will now receive data from the People counter system.

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9 TROUBLE SHOOTING

9.1 Data missing on computer screen

9.1.1 Check USB connection

Is the USB cable connected in the computer and in the receiver?

9.1.2 Check power

Is the power lamp ON in receiver, transmitter and sensor?
If not, check the adaptor and connection to mains plug
The adaptor: 12V-15dc, 300mA

9.1.3 Restart the computer

Restart the computer to make sure that the program starts correct.

9.1.4 Check sensor

Check the LED at the sensor.
When nobody is passing the sensor it must be green.
When a person is detected it switches to red.
If nothing happens and no light in the LED please check the connection of the sensor at the terminal block at the back of the transmitter. See section 7.3 no. 10

9.1.5 Check transmitter

CON lamp shall give a short flash with 5-10 sec. interval.
This means that there is wireless connection between the transmitter and the receiver and that the counts are transmitted to the receiver.
No flash in the CON lamp means that there is no wireless connection to the receiver.

When a person is detected the C1 (or C2-C3) lamp is ON.

TEST lamp is ON when a person is detected both entering the shop and leaving the shop.
This means that the transmitter divide the counts with two.
When CON gives a flash and sent the count to the receiver the TEST lamp goes OFF.

9.1.6 Check receiver

COM lamp shall give a short flash (0.5 sec.) with 5-10 sec. interval.
This means that there is connection to the transmitter.
Long flash (2 sec.) means that there is no connection to the transmitter

Press 1 and the display will show CNT1: XX (where XX is no. of counts)
CNT1 refers to Input 1 in the transmitter

9.2 FIFO shown in receiver display

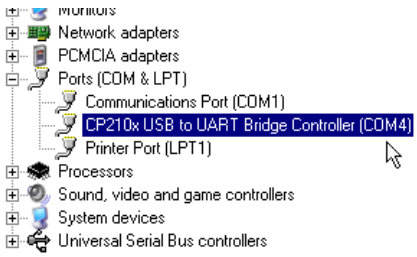
If FIFO is in display it is caused by either that the power has be OFF for a short while or that the USB cable has been removed from the plug and inserted again.
The software will automatically establish the connection to the USB port once every hour and the stored data in the receiver will be transmitted to the software.
No data will be lost. The receiver can have data stored for the last 10 days

If FIFO is shown in the display for more than 2 hours do the following:

Check the connection to the software:
Set the receiver in TEST mode by pressing 0 until a T is shown in the display.
This means that the receiver is transmitting data to the software every 10 sec. (it is normally every hour)
Set the software in TEST mode by removing the selection in FILE – SETTING – FILTER DUPLICATE LOGS
View the log file as text. The connection is OK if a new set of data is shown every 10 sec.

If nothing happens check the following:
USB cable connected correct in the receiver and the computer.
Restart the computer

Check that the USB driver is installed.
Right click on My Computer at the Desktop and select Properties. Select Hardware and Device manager. Check that the USB to UART driver is shown. If shown means that there is connection from the computer to the receiver.



The COM port (in this case COM4) must be selected in the FILE – SETTING (RS232).

Check the text file to if the log is updated every 10 seconds.

Remember to remove the TEST setting in the software by selecting FILE – SETTING – FILTER DUPLICATE LOGS
Also remember to remove the TEST setting in the receiver by pressing 0 until T is removed in the display (is also done automatically after 16minutes)

9.3 Settings is not possible (text is grey)

The software is locked.
Unlock the software by using the password: multiteknik0102

The software can be locked again by selecting the password as blank and select OK.

9.4 The clock is not showing local time

The clock will be updated automatically every half hour xx:30
It is done manually this way:
Press 4 in 2-3 sec.
The receiver will read the computer clock and show it in the display

9.5 Emails are not received

Check the log file: DatalogApp.log which is located in the People Counter folder.
Here is shown all software activity.

If a text like this is found, the mail is not sent.
2007-05-30 01:00:00 : Error - Mail: Socket Error # 10053Software caused connection abort. (XX@YY.ZZ - C:\PeopleCounter\Data\CountData.log)

Please check the following in the Settings:

- Check that the SMTP-server “Server” is correct and available
- Use the same SMTP as MS Outlook
- Use only SMTP-server. Do not use IMAP server
- Check that SMTP-server “Senders” exist
- set a check mark in “Mail setting” “Hour”

Please check if the firewall (McAfee, Norton, etc.) in the PC is blocking mail transmission from DataLogApp.
It is most likely that mail transmission from DataLogApp can be allowed if it is blocked by the firewall.

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10 TECHNICAL SPECIFICATIONS

300 -1050221 People Counter Receiver PR01

Operating max power	12Vdc, 300mA
Dimensions	90 x 148 x 25 mm
Weight	179 g
Frequency	432.92 MHz
Output power	9.99 mW
Distance to transmitter	3-350 meter in open space
Inputs	Max 3 sensors
Output voltage for sensors	12 volt DC
PC connection	USB
Memory	Data for the last 10 days
Adaptor	230-240Vac
RoHS compliant	Yes

300 -1050121 People Counter Transmitter PT01

Operating max power	12Vdc, 300mA
Dimensions	90 x 148 x 25 mm
Weight	161 g
Frequency	432.92 MHz
Output power	9.99 mW
Distance to receiver	3-350 meter in open space
Inputs	Max 3 sensors
Output voltage for sensors	12 volt DC
Adaptor	230-240Vac
RoHS compliant	Yes

300 -1050341 Sensor SV01 (Vertical IR sensor)

Operating power	12Vdc, 70mA
Dimensions	210 x 60 x 35 mm
Weight	app. 200 g
Max range	3 meter (placed 3 meter above the floor)
RoHS compliant	Yes

300 -1050401 People Counter Software PS01
USB key

Minimum system requirements of the computer system:
Windows 98, Windows 2000, Windows XP, Windows Vista
256MB of RAM
10MB of hard disk space
USB port

Article number: 9001051001

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