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Manual Mini-Connect

a PFM Customer Counting Product



Version 5.6.x

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General

MiniConnect is designed by Flucon to run under Windows and it collects and distributes the Minilogger data

De application can communicate with the Minilogger in different modes.

1. direct connection (RS232)
2. Modem (analogue or GSM analogue and GSM digital)
3. Local Area Network (TCP/IP).

MiniConnect will allow you, after receipt of the data files, to review the data for the past 5 weeks.

By using the Windows scheduler program, MiniConnect can be set-up to automatically collect all data.

The Minilogger will hold in average approximately 3 weeks of data, pending the actual setting of the opening / closing times and save interval.

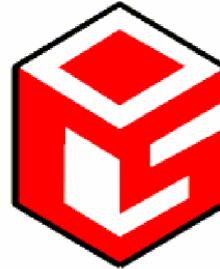
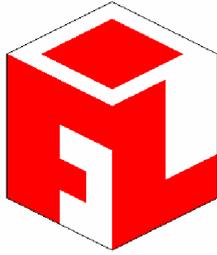
MiniConnect is designed to run on Windows 95, 98, ME, NT4, 2000 and XP.



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Januari 2011-01-16

Information



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Despite the fact that we did our utmost to design and produce a correct product, questions or errors may occur in the application or manual. For any remarks and or further information, please do not hesitate to contact us.

Installation

MiniConnect can be supplied as an installation program on either CD or diskette. When loading the CD the set-up procedure will start automatically.

If the CD does not start automatically, the installation can be started by clicking on “start, run” and select set-up.

For the diskette version select set-up on the first diskette.

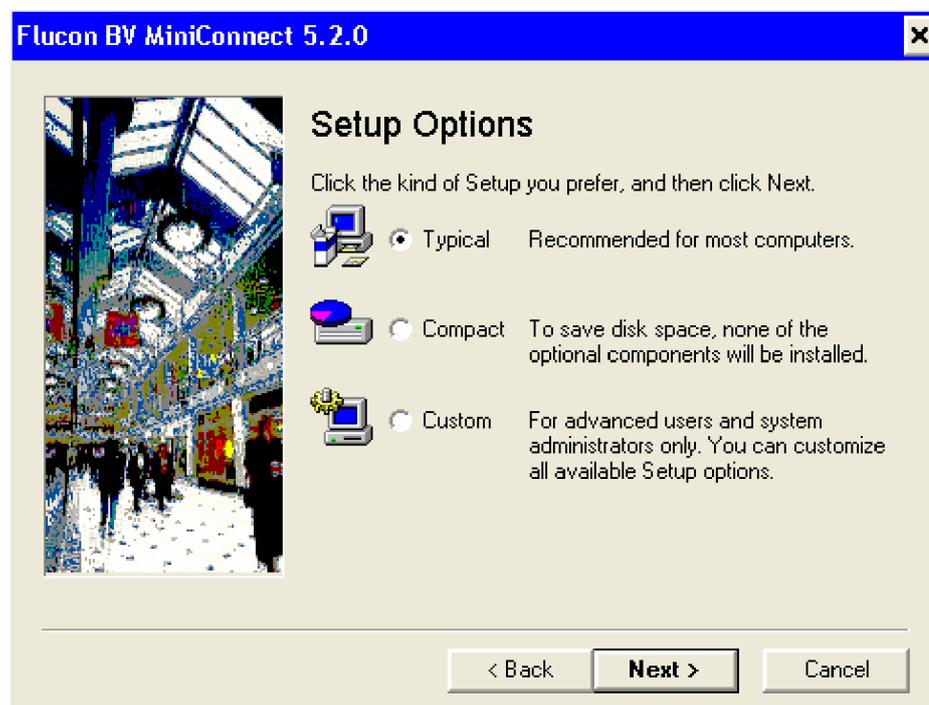
The program will be default installed in C:\Program files\PFMMiniConnect\.

Also 2 “ini” files will be placed in this folder.

- MiniConnect.ini
- MiniPhone.ini

In the first file all configuration details will be saved, in the second file the location with all necessary parameters will be saved. Both files can be updated within the application.

For more information [General Set-up](#) and [Location settings](#)



On first installation the option “Typical” should be selected. All files will be installed. If a previous version was installed select “Compact”. All configuration files will not be installed and the existing files with configuration data will be saved.

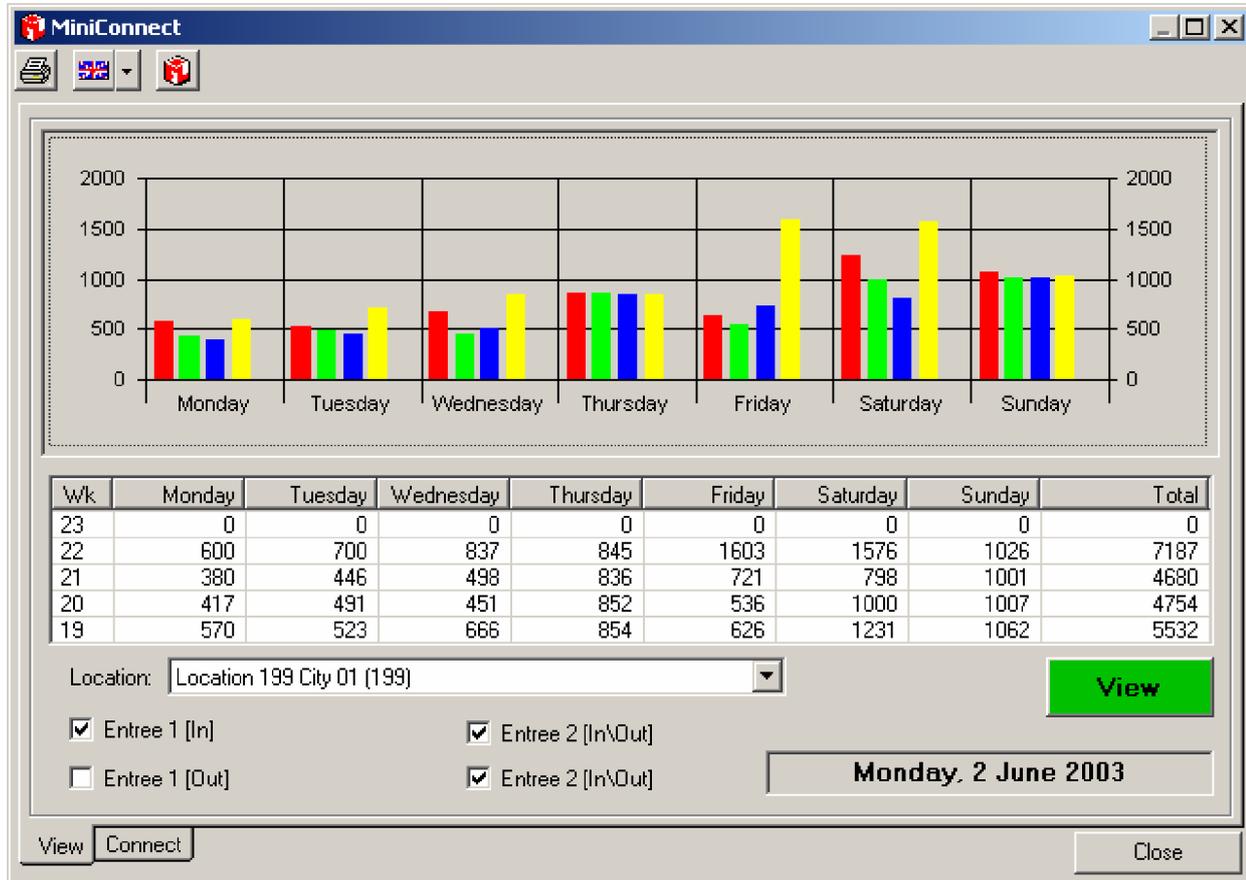
If “Custom” is selected, the installation guides you through the different options

After installation start the application from the menu “Programs/PFM Customer Counting”.

How to get started

When the program is started, the opening screen shows the last 5 weeks of collected data of the selected site. The current week is on top and the previous 4 weeks are indicated below.

Pending the settings, the first day of the week can be either Monday or Sunday.



If more than 1 location is configured, a different site can be selected from the list.

Location:

Entree 1 [In] Entree 2 [In\Out]
 Entree 1 [Out] Entree 2 [In\Out]

A Minilogger collects data from 2 entrances (Bi-directional) or 4 entrances (Omni-directional). For the overview a selection can be made to review each entrance or the total of both entrances.

If the selection is changed, press "View" to recalculate the results.

The date in the field indicates the current date.

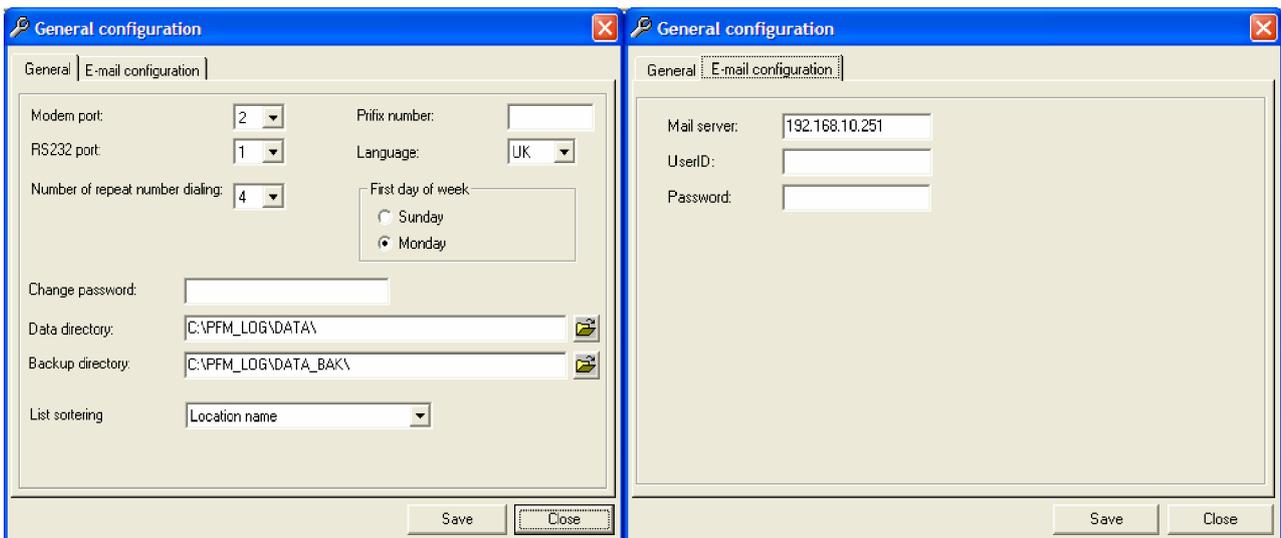
General Set-up



Select the Tab "Connect" at the bottom of the screen.

In the left top corner additional options will be available.

Click on the "Tool" button to activate the screen for the general settings. The general settings are password protected. If the password is unknown, press Esc to close this screen. Type the password and the following screen appears.



Explanation of setting options.

- **Com.port Modem.**
If an external (or internal) modem is used to connect to the Minilogger, indicate the port number on your computer which is configured for the modem.
- **Com.port RS232.**
For a direct connection to the Minilogger using a 0-modem cable, indicate the COM port used on your computer for this connection.
- **Count of repeat number dialing.**
In this field the number of trials can be set that the number is dialled to connect to the Minilogger. After each trial 10 seconds will be waited to try the next connection.
- **Number of repeats to collect data**
In this field the number of trials to get the data within a connect session is set. A bad line can cause errors in collecting the data.
- **Data Directory.**
In this field the path is set for saving the original data. Depending the settings for the specified location the DF and/or de MA files will be saved in this folder. The field can be changed by clicking on the “open folder” button. A selection can be made to a new or existing folder.
- **Data Backup Directory.**
In this folder a back-up of all data is saved. For multi location applications, a subfolder is automatically generated per location. The subfolder will have the name of the location code.
In the backup folder always a DF-format file will be saved. If the MA-format is selected in the location settings, also a copy of the MA file will be saved. The backup folder will be used to produce the overview screen per location.
- **Prefix dialnumber.**
If a prefix number is required to get an outside line for the modem connection the number can be set in this field.
- **Language.**
In this field the default language is set. The options are English, Dutch, German and French. The default setting will be selected at start-up of the program. During the running of the program the language can be changed, however on the next start-up the default will appear.
- **First day of the week.**
This option will only effect the overview screen and weekly total.
- **List sorting.**
Select the sorting criteria; 1) in input sequence, 2) location name or 3 Location code
- **E-mail configuration**
If the E-mail option is used for transmitting data files, provide the details for the E-mail server

After clicking save and close the program will restart to load the new settings.

Location settings



Select the Tab "Connect" at the bottom of the screen.

Select in the upper left corner the button with the house. The general settings are password protected. If the password is unknown, press Esc to close this screen.

Type the password and the following screen appears.



Location	Place	Number	Depa...	Auto...
Lokatie 01	Amsterdam	321	3501	Yes
Location 02	City 02	002		No
Paul	Alphen	321	2222	No

An overview is given of all configured locations.

To delete a location; Select the line and click on "delete".

To change an existing location; Select the relevant line and click on "change".

To add a new location click on "new". If "new" or "change" is selected the following screen appears.

Location code: 951 Depart. nr.: 951

Location name: Store name

Place: City

Phone number: 0630386022

IP number: 84.241.204.58 Port nr.: 3101

Autodial on start with scheduler

Auto select when application started

Including counts from today

Synchronise time on datalogger

Files always overwrite

Reading Open and Close time from Minilogger

Verbinding

Modem Analoge

Modem GSM(A)

Modem GSM(D)

Direct

Lan (TCPIP)

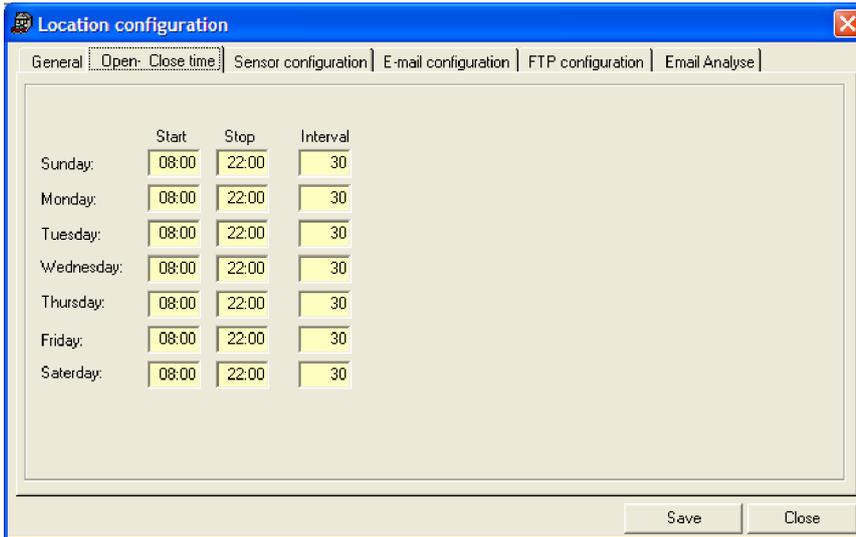
DF files

MA files

Time offset (+/-hours): 0

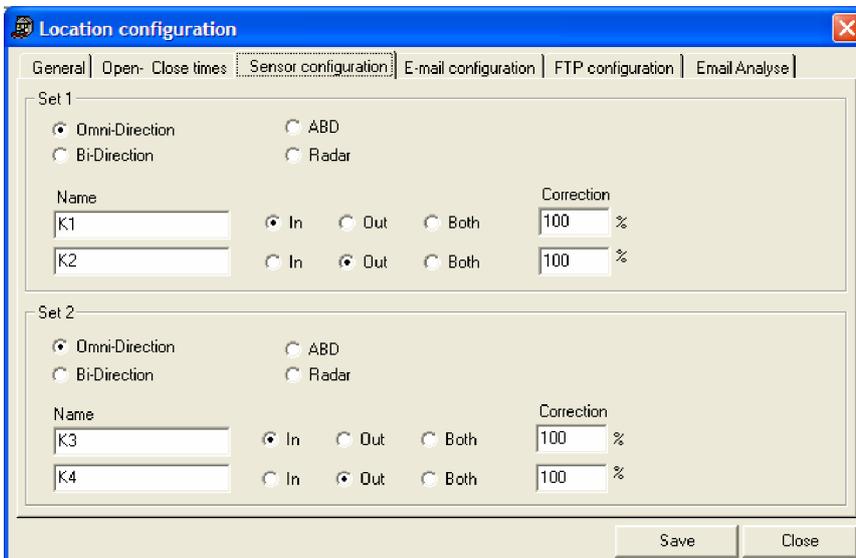
The following options can be set per location:

- **Location Code.**
Each location must have a unique code (max. 3 digits) independent from the Minilogger setting, however this code will be used to name the subfolder in the data back directory and it will become the extension for the DF format file.
- **Depart. Code.**
This files can be used for the actual store number. It is not a mandatory field. If a number is used, the number will appear in the MA file format. If no number is used, the Location Code will be used for both DF and MA file format.
- **Location name.**
The name of the actual location. This name will also appear in the header of the DF file format.
- **Location Place.**
The actual city for the store must be given in this field.
- **Autodial on start with scheduler**
If this option is selected, data from the location will be automatically downloaded when the application is started by scheduler.
- **Auto select when application started.**
If this option is selected, the location is pre-selected when the application is started.
- **Including counts from today.**
If this option is selected, all data is transferred including today's data. Today's data file will be overwritten if it already exists.
- **Synchronise time on Minilogger.**
This option allows time synchronisation by the remote computer. It is recommended to activate this option as the Minilogger real time clock may drift over a longer period. Time synchronisation may become a problem when Miniloggers are dialled in different time zones.
- **Files always overwrite.**
This option will allow existing files on the remote computer to be overwritten in both \data and \data_back directory.
- **Reading Open and Close time from Minilogger.**
A Minilogger hold per day settings for start and stop times. It also holds settings for the save interval of the counting data. The default setting is 30 minutes. If this option is selected, during the connection with the MiniLogger, these settings will be downloaded and saves on the workstation. The open / closing times and save interval can be reviewed under the tab "settings" for the location parameters.
- **Mode of connection.**
MiniConnect can connect to a Minilogger in 5 different modes.
Modem: For the use of a standard modem, a telephone number must be given in the relevant field. Also under [General Set-up](#) the correct COM port for the modem must be set.
Direct: This option is selected when the Minilogger is connected direct to the COM port of the workstation using a 0-modem cable. In the [General Set-up](#) the actual COM port of the workstation must be set.
Lan (TCPIP): This option is selected when the Minilogger is equipped with a LAN-card for TCP/IP connections. After connecting the Minilogger to the network the IP address or domain name of the Minilogger must be set in the dial list with the other relevant information..
- **Save as DF file.**
DF file format will always be generated and saved in the Data Backup folder. If this option is selected DF file format will also be saved in the Data folder.
- **Save as MA file.**
If this option is selected a MA file format will be saved in both DATA and DAT-BAK folder. In the Data backup folder a DF file format will also be generated.
- **Time offset**
This setting must be used if the Minilogger is installed in a different time zone.

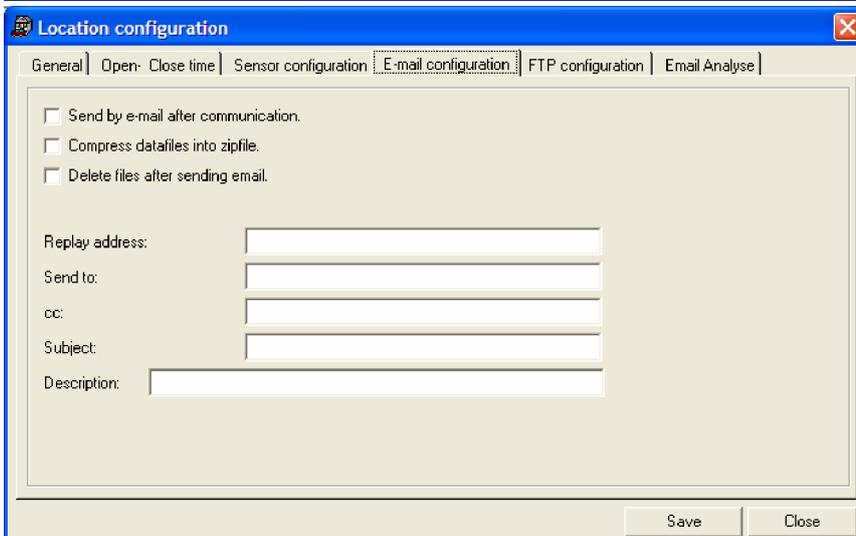


On this page the opening and closing times together with the safe interval is presented.

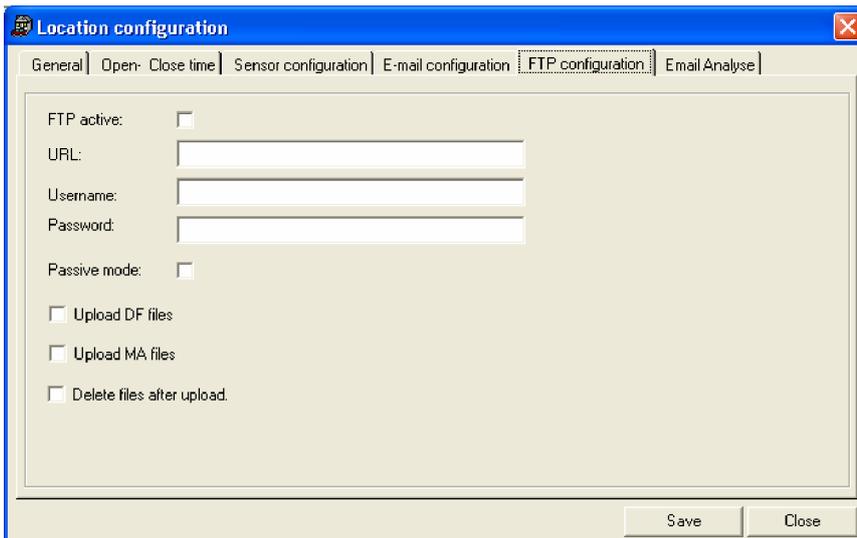
To change the settings in the Minilogger, refer to the relevant section



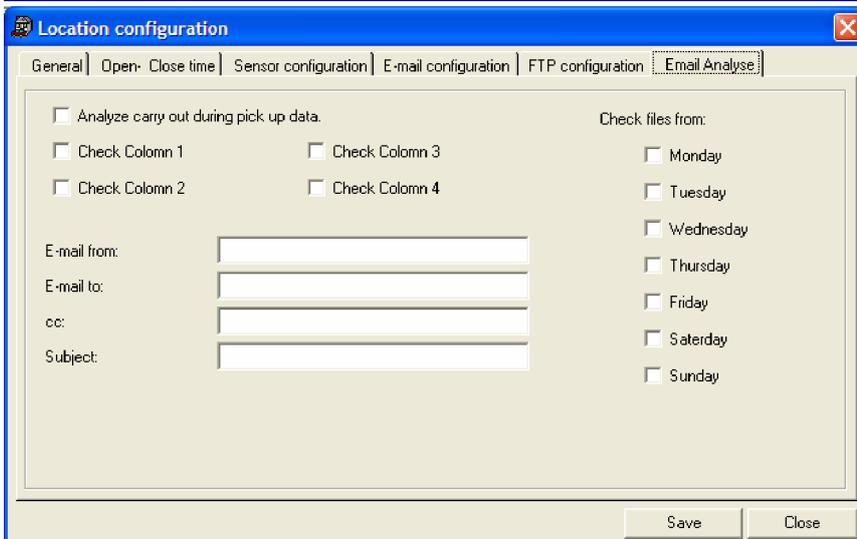
On this page the actual set-up of the information from the sensors is set. A Minilogger compiles data from max. 2 sensor sets. Depending on the type of sensor (Omni or Bi directional) a selection can be made for the flow direction. In Bi-directional mode the data is fixed. For omni a selection can be made for IN or OUT or Both depending on the type of entrance. If a 50% correction is applied the results will relate to actual visitors when the sensor measures IN + OUT.



On this page the E-mail message for the store can be configured. The actual E-mail server details are under "general settings"



To automatically upload the data files to a server using a FTP(S) session, details for the FTP connections can be set per location. After receipt of the data files and a successful upload, files can be deleted in the /data directory.



To allow an error message via E-mail, the criteria can be set to detect a fault in the counting data file direct after connection to the store. 0 counts will occur in non-user channels and on closed trading days. Select the column to be checked and the normal trading days.

Connect to the Minilogger

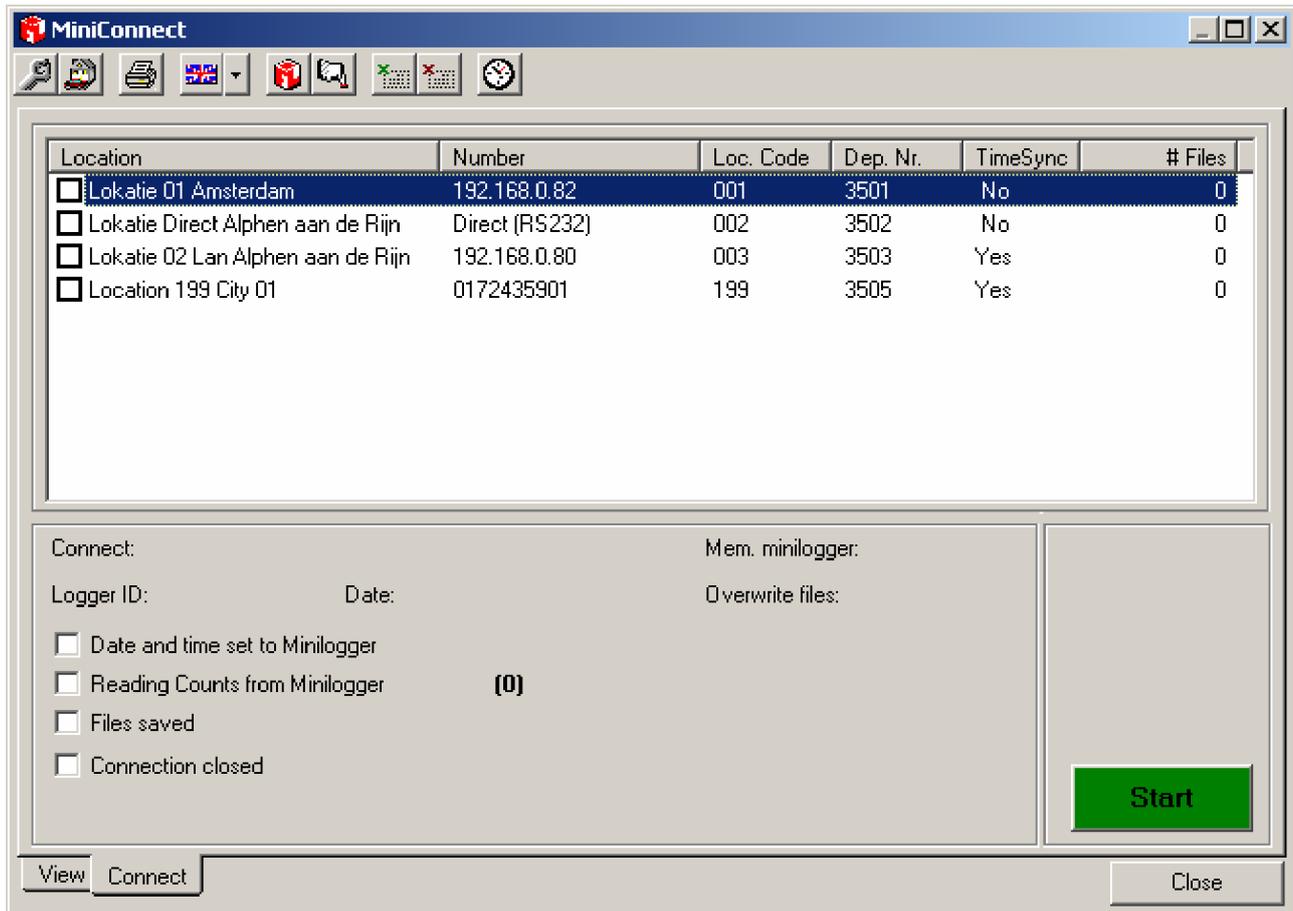
When the application is started, a connection can be made to the selected location.



Click in the bottom left corner on the tab "Connect"



Use these buttons in the toolbar to select all or none location.



All locations are presented in the list. All auto-selected locations (also see [Location settings](#)) are pre-selected and this list and presented with a ticked box.

Click on "Start" to download the information from all selected locations. If the connection is made, information of the dialled site is presented on the screen.

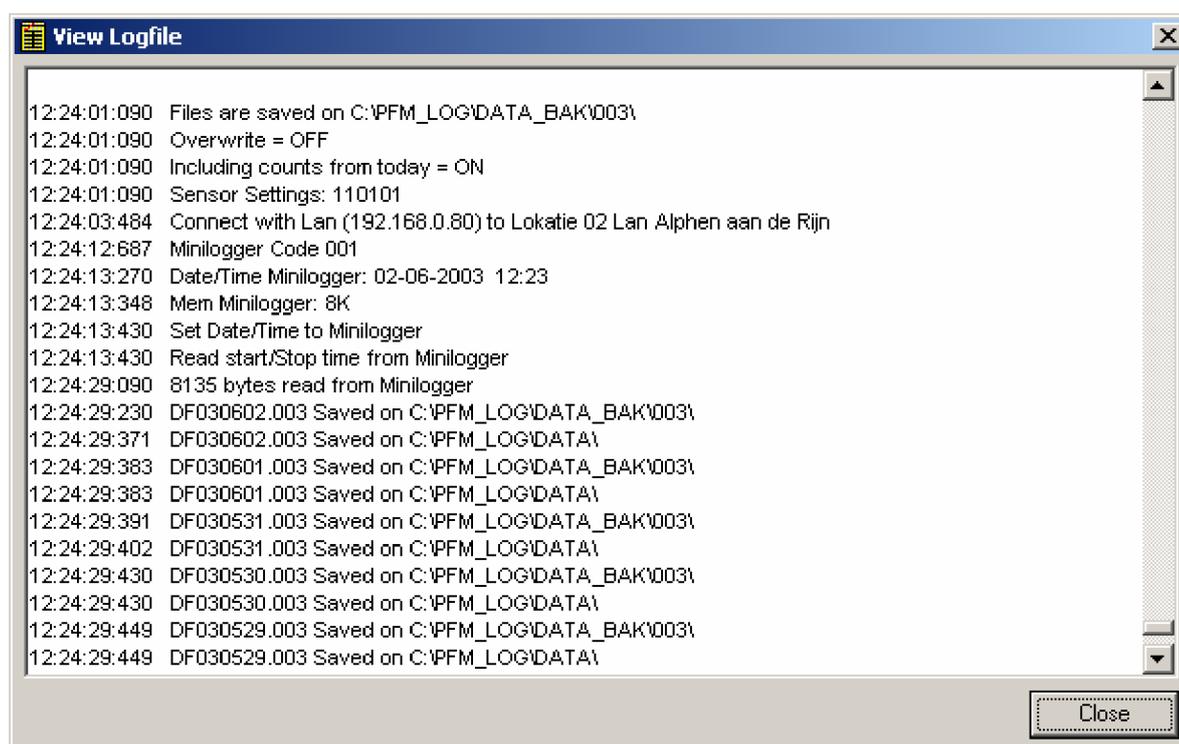
Connect:	Lan 192.168.0.80	OK	Mem. minilogger:	8K	
Logger ID:	001	Date:	02-06-2003 12:23	Overwrite files:	OFF
<input checked="" type="checkbox"/>	Date and time set to Minilogger				
<input checked="" type="checkbox"/>	Reading Counts from Minilogger		(8192)		
<input checked="" type="checkbox"/>	Files saved		(14)		
<input checked="" type="checkbox"/>	Connection closed				

The information presented during the connect session relates to the location selected.



During the connect session with the MiniLogger a Session log is generated. For each new connect session a new log is generated and the old log is overwritten. De session log can be reviewed by clicking on the “book” button in the toolbar.

Sample of the session log file .



After the connect session with the location, the information is available under the tab “View”

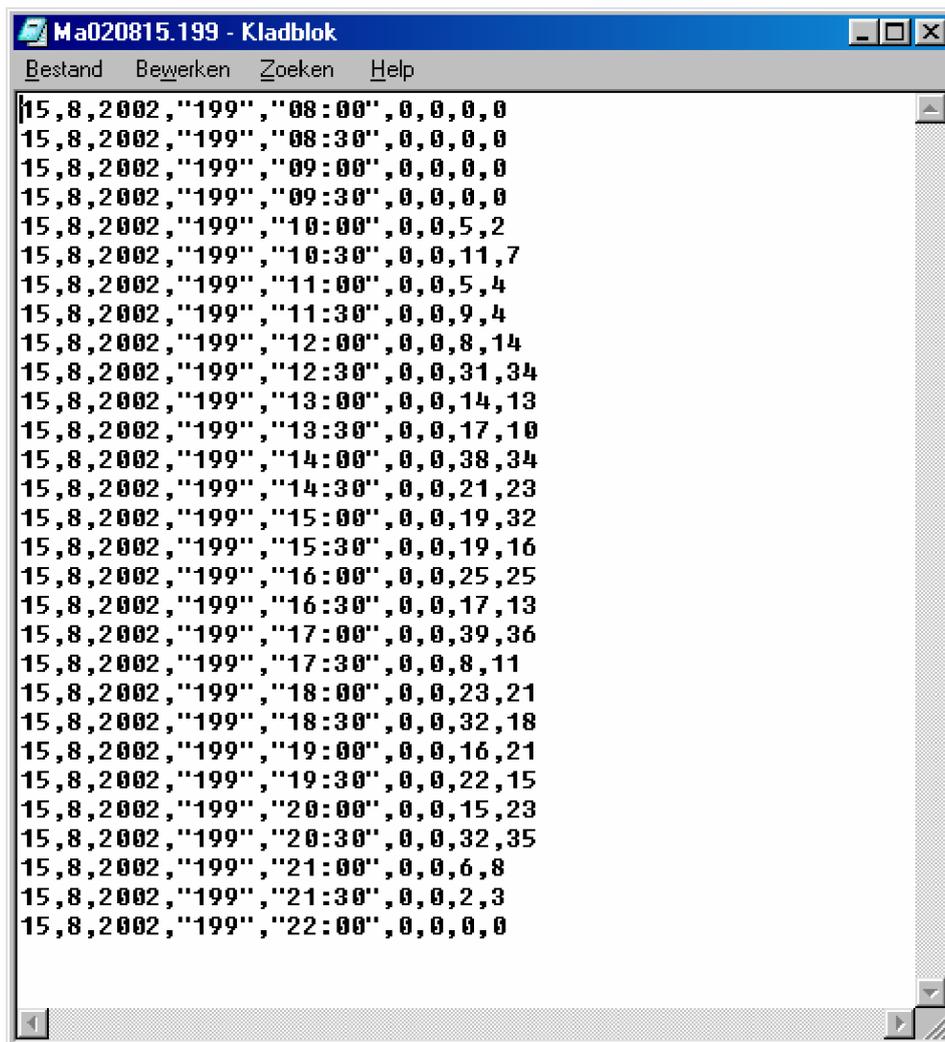
Sample of a DF file

```
Df021015.199 - Kladblok
Bestand  Bewerken  Zoeken  Help

"199","Mini","Logger","Data","02/10/15"," ","Lokatie 01","Amsterdam",,,,,,,,,,
"", "S1", "S1", "S2", "S2"
"", "Out", "In", "Out", "In"
"", "In", "Out", "In", "Out"

"08:00",0,0,0,0
"08:30",0,0,0,0
"09:00",0,0,0,0
"09:30",0,0,0,0
"10:00",0,0,2,0
"10:30",0,0,8,10
"11:00",0,0,11,6
"11:30",0,0,2,5
"12:00",0,0,2,3
"12:30",0,0,4,7
"13:00",0,0,8,5
"13:30",0,0,14,16
"14:00",0,0,14,13
"14:30",0,0,4,4
"15:00",0,0,10,9
"15:30",0,0,8,12
"16:00",0,0,19,22
"16:30",0,0,24,18
"17:00",0,0,17,15
"17:30",0,0,25,25
"18:00",0,0,5,13
"18:30",0,0,10,8
"19:00",0,0,2,2
"19:30",0,0,0,0
"20:00",0,0,0,0
"20:30",0,0,0,0
"21:00",0,0,0,0
"21:30",0,0,0,0
"22:00",0,0,0,0
```

Sample of a MA file



```
Ma020815.199 - Kladblok
Bestand  Bewerken  Zoeken  Help
15,8,2002,"199","08:00",0,0,0,0
15,8,2002,"199","08:30",0,0,0,0
15,8,2002,"199","09:00",0,0,0,0
15,8,2002,"199","09:30",0,0,0,0
15,8,2002,"199","10:00",0,0,5,2
15,8,2002,"199","10:30",0,0,11,7
15,8,2002,"199","11:00",0,0,5,4
15,8,2002,"199","11:30",0,0,9,4
15,8,2002,"199","12:00",0,0,8,14
15,8,2002,"199","12:30",0,0,31,34
15,8,2002,"199","13:00",0,0,14,13
15,8,2002,"199","13:30",0,0,17,10
15,8,2002,"199","14:00",0,0,38,34
15,8,2002,"199","14:30",0,0,21,23
15,8,2002,"199","15:00",0,0,19,32
15,8,2002,"199","15:30",0,0,19,16
15,8,2002,"199","16:00",0,0,25,25
15,8,2002,"199","16:30",0,0,17,13
15,8,2002,"199","17:00",0,0,39,36
15,8,2002,"199","17:30",0,0,8,11
15,8,2002,"199","18:00",0,0,23,21
15,8,2002,"199","18:30",0,0,32,18
15,8,2002,"199","19:00",0,0,16,21
15,8,2002,"199","19:30",0,0,22,15
15,8,2002,"199","20:00",0,0,15,23
15,8,2002,"199","20:30",0,0,32,35
15,8,2002,"199","21:00",0,0,6,8
15,8,2002,"199","21:30",0,0,2,3
15,8,2002,"199","22:00",0,0,0,0
```

Changing the start and stop-times of the MiniLogger

A Minilogger can be set to start and stop counting at preset times per day. Also per day the save interval of the count data can be set.

To change these settings the following procedures are to be followed.

Click after starting the application on the tab "Connect" in the left bottom corner.

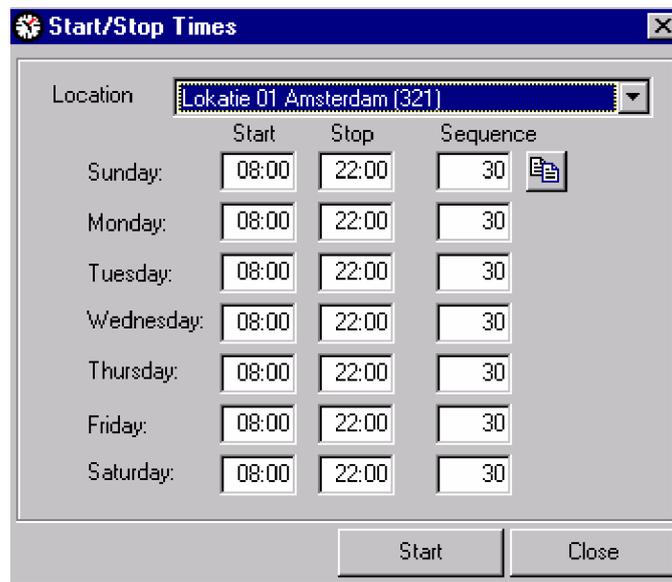


Click on the button "Clock" in the toolbar



After entering the correct password (default is Supervisor) the following screen will appear.

Select the correct location and the settings for the location will be presented.



	Start	Stop	Sequence
Sunday:	08:00	22:00	30
Monday:	08:00	22:00	30
Tuesday:	08:00	22:00	30
Wednesday:	08:00	22:00	30
Thursday:	08:00	22:00	30
Friday:	08:00	22:00	30
Saturday:	08:00	22:00	30

NOTE: Only when a connect session has been run with the location whereby the option "GET Start/Stop times" (see [Location settings](#)) was selected, the times and intervals are identical to the Minilogger settings. If no connection was made or when the option was not selected, the presented times and intervals can deviate from the actual Minilogger settings

The copy button can be used to duplicate the settings for each day



If all settings are correct the new settings can be send to the Minilogger by pressing the Start button.

The settings can also be reviewed under the tab "settings" at the screen "Location parameters"

Start attributes

The application can be started with different attributes.

Miniconnect /A The attribute **/A(automatic)** can be used to start automatically the download of the pre-selected locations. This attribute is required when a scheduler from Windows is used to start the application. After completion of all connections to the locations, the application will automatically close

Miniconnect /TDO The attribute **/TDO (Today only)** will cause the connect session to download today's file only. Any existing file will automatically be overwritten .

Miniconnect /E The attribute **/E (E-mail)** will add an additional page for setting up the e-mail message connection. This option can only be used if the workstation will have access to the internet and an automatic message by e-mail is not blocked.

With these two attributes it is recommended to shorten the download time by running the **/A /TDO** every day at the day end, and to run the **/A** weekly to download any missed file.

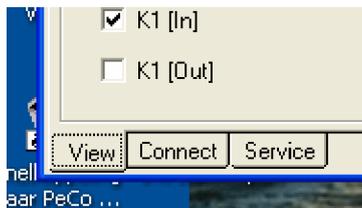
NOTE: When run in the automatic mode ensure that the settings for the location "Including today's totals" and "Overwrite file" are **not** selected.

See also [Location settings](#) .

Service settings

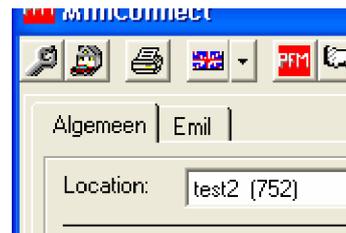
The application can be started with a service option using the following attribute.

Miniconnect /S /XXX The attribute **/S(service)** can be used to activate the service tab in the menu selection. The **/XXX** attribute will disable the password requirement allowing an easy and quick access to each parameter.

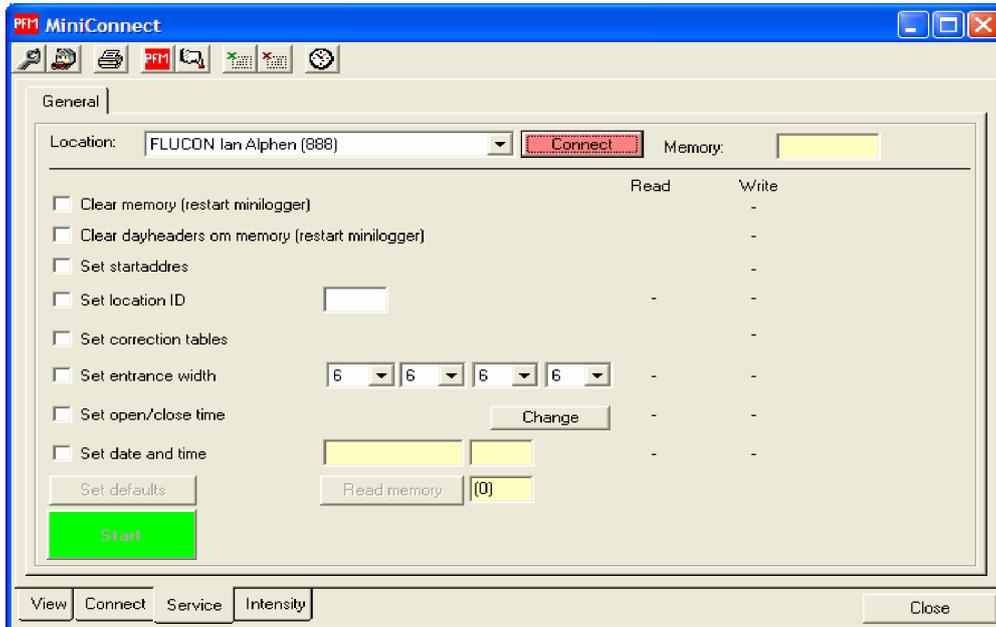


Select the service tab and use this page to connect to the required Minilogger from the scroll menu at the top of the page.

After connection to the required Minilogger, the application will recognize an Emil version if applicable, and an additional tab will appear.

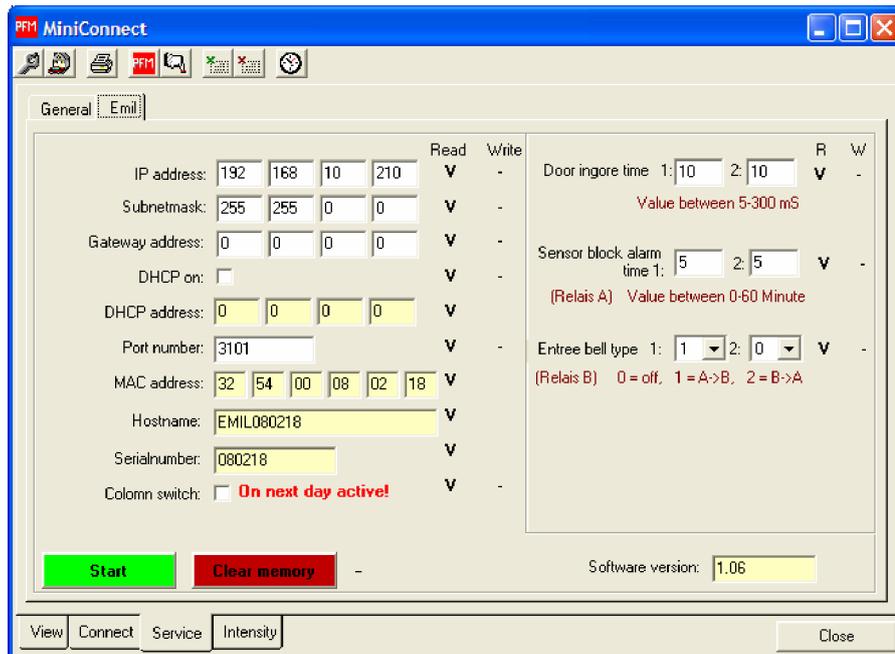


MiniLogger configuration by using MiniConnect



On the first page, all standard settings can be changed, including time and date. The “Clear memory” option will delete all software and requires a new configuration. The “clear dayheaders on memory” will delete any old counting information only. A restart of the Minilogger will generate a new file for “today”

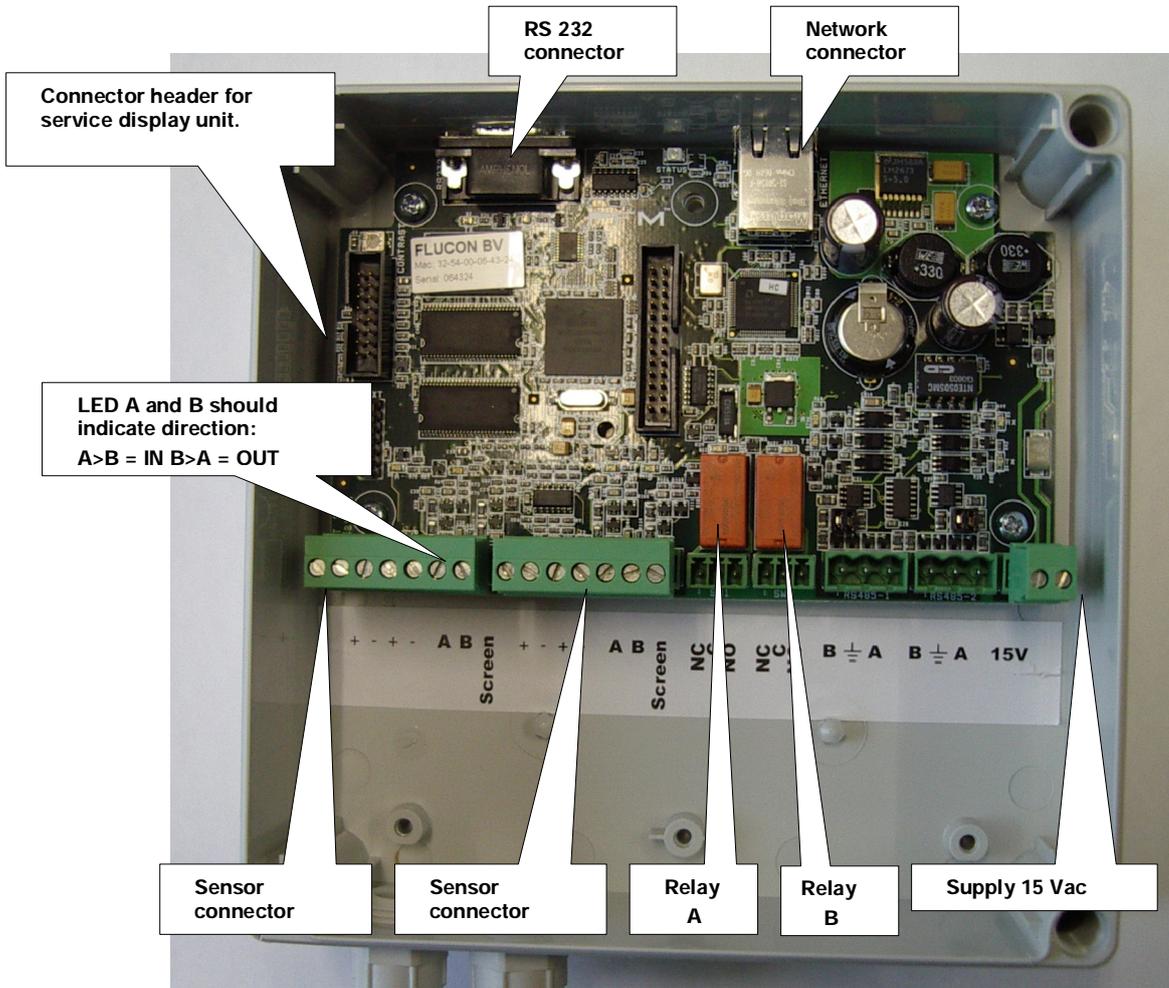
On the Emil page, the TCP/IP requirements can be set. Also the “door ignore time”, “sensor block alarm” and “Entrée bell” options per sensor set can be set.



The Door ignore time can be set for each sensor. The default setting for each sensor is 50 mSec.

The sensor block alarm will activate relay A (see below) if the sensor receiver is blocked for a preset period. For each sensor this value can be set between 0 and 60 minutes. A common default setting is 5 minutes.

Relay B (see below) can be used to activate an audible signal (gong, bel etc.) on either IN-coming persons (set 1 = A>B) or out-going persons (set 2= B>A) or can be set in off mode (set 0 = off)



Minilogger version Emil internal lay-out.

Sensor connector 1 & 2 are identical to the previous version of Minilogger. Also the pin out is identical and interchangeable.

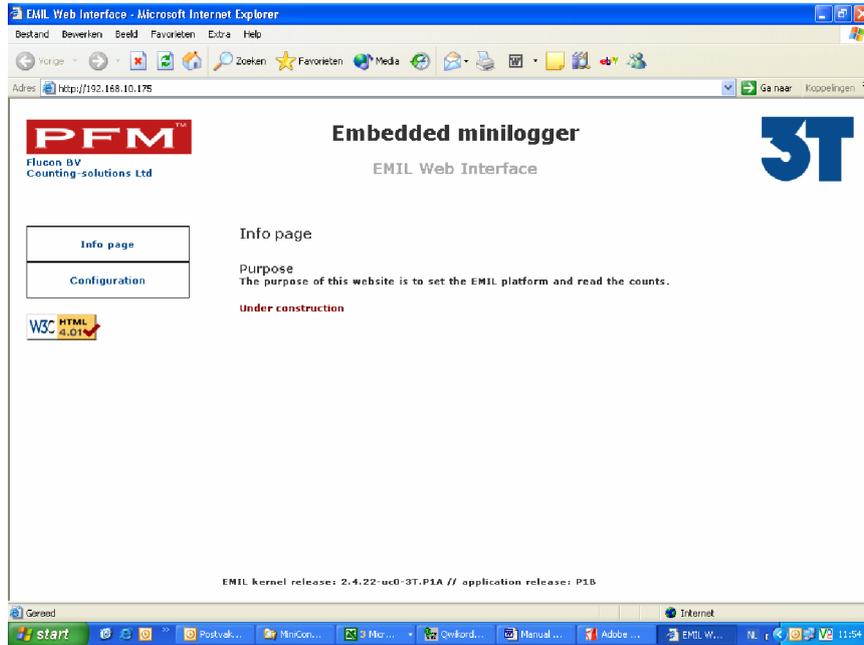
The relay A connector is used to activate an audible signal if the light path between the sensors is obstructed for a preset period. Relay B can be used to activate an external audible signal.

Please note that the sensor block alarm will activate Relay A 10 times and repeat this alarm every set time in minutes as long as the blockage remains.

The audible signal can be obtained from relay B which will give 1 pulse of 1 second for each IN or OUT count (depending the setting) Both IN and OUT is not available.

The delay on the audible signal is approximately 1 second.

MiniLogger configuration via WEB browser



If the Emil version is used at a know IP address, the option is available to use the WEB browser to review the settings. At the command: `http:// xxx.xxx.xxx.xxx (= IP nr)` the above page will appear.

Username:	<input type="text"/>
Password:	<input type="password"/>
	<input type="button" value="Login"/>

If "configuration" is selected, the username and password can be entered (emil, 1029Emil) to get access to the setting information. This page can be used to change the settings and save them in the Minilogger. Any change will only become effective after a reboot of the system.

EMIL Web Interface - Windows Internet Explorer

http://192.168.10.210/

Bestand Bewerken Beeld Favorieten Extra Help

Google www.192.168.10.210

Uitvoeren Bladwijzers 0 geblokkeerd Spelling controleren Verzenden naar Instellingen

EMIL Web Interface



PFM
Flucon BV
Counting-solutions Ltd

Embedded minilogger

EMIL Web Interface



[Info page](#)

[Configuration](#)

Broadcast address:

Subnet mask:

DHCP: Enable DHCP

Gateway:

Leave 0.0.0.0 if no gateway is present.

Port number:

MAC address:

MiniLogger configuration

Column switch: Enable Column switch (Bi/Omni)

Door ignore time: Value between 5-300 mS

Sensor block alarm value: Value between 0-60 Minute, 0=off

Entree bell: 0=off, 1=A->B, 2=B->A

EMIL kernel release: 2.4.22-uc0-3T.P1A // application release: P18

Gereed Internet 100%

Intensity settings (/i attribute)

With the attribute /i, the Mini-Connect application will show an additional tab to view today's intensity in the store (IN – OUT = Intensity)

With the /I attribute the Mini-Connect application will automatically connect to the Minilogger if "Auto refresh" is selected and the display will show the actual number of people in the store at that moment. The default update is 5 minutes.



The display allows to set an alarm value and if this value is exceeded the digital indicator will start flashing in red and pin 5 on the output LPT port of the computer will be activated to allow the use of an external alarm.

The display time scale is changed in the 5.4 version. The graph will show the current intensity and the time scale looks back for the last 24 hours.

In the directory of Miniconnect, a file is added Intensity.ini

This file sets the refresh time in seconds (minimal 300)
Plus a null value time for systems that continue to count 24 hours. To allow a reset to zero, do select a time to zero balance the result.

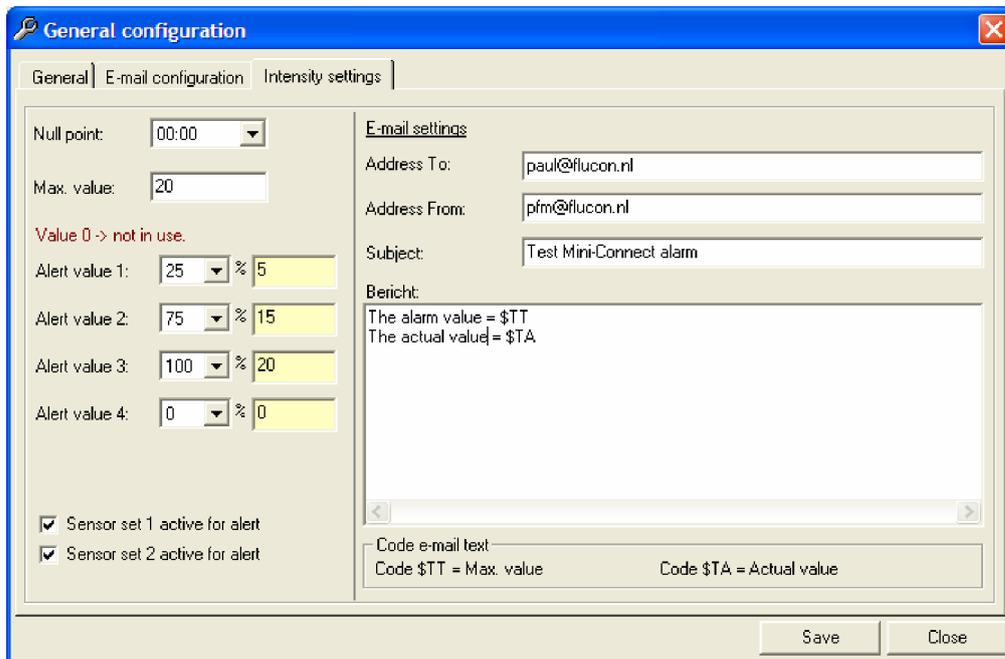
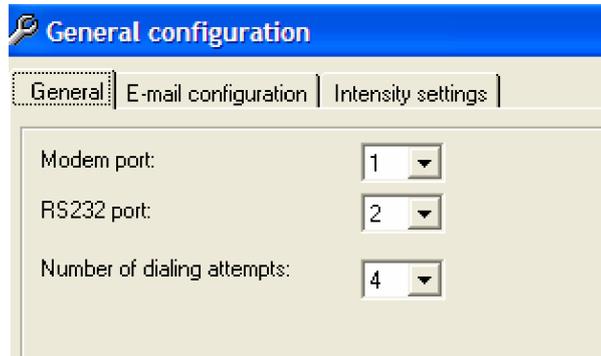
Note that the null value is set to 08:00 and not 8:00.

Do not modify any of the other settings in this file.

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[Intensity Configuration]
PORTADDRESS=378
LOCATIONI=9
LEVELI=20
AUTOREFRESH=1
REFRESHTIME=600
NULLVALUE=00:00
ALERT1=25
ALERT2=75
ALERT3=100
ALERT4=0
EMAILTO=pau1@flucon.nl
EMAILFROM=pfm@flucon.nl
EMAILSUBJECT=Test Mini-Connect alarm
EMAILTEXT=de maximale waarde = $TT$13Huidige waarde = $TA
ALERTACTIVE=3
```

The intensity option also allows to set an e-mail warning system. If the workstation has access to the e-mail as set in the general settings, mails can be generated by the application to warn for an increase in intensity. The warnings can be set under the "general setting" with the added tab "Intensity Settings"

- Select the tab "Connect"
- Select the tab "General Configuration"
- Select the tab "Intensity Settings"



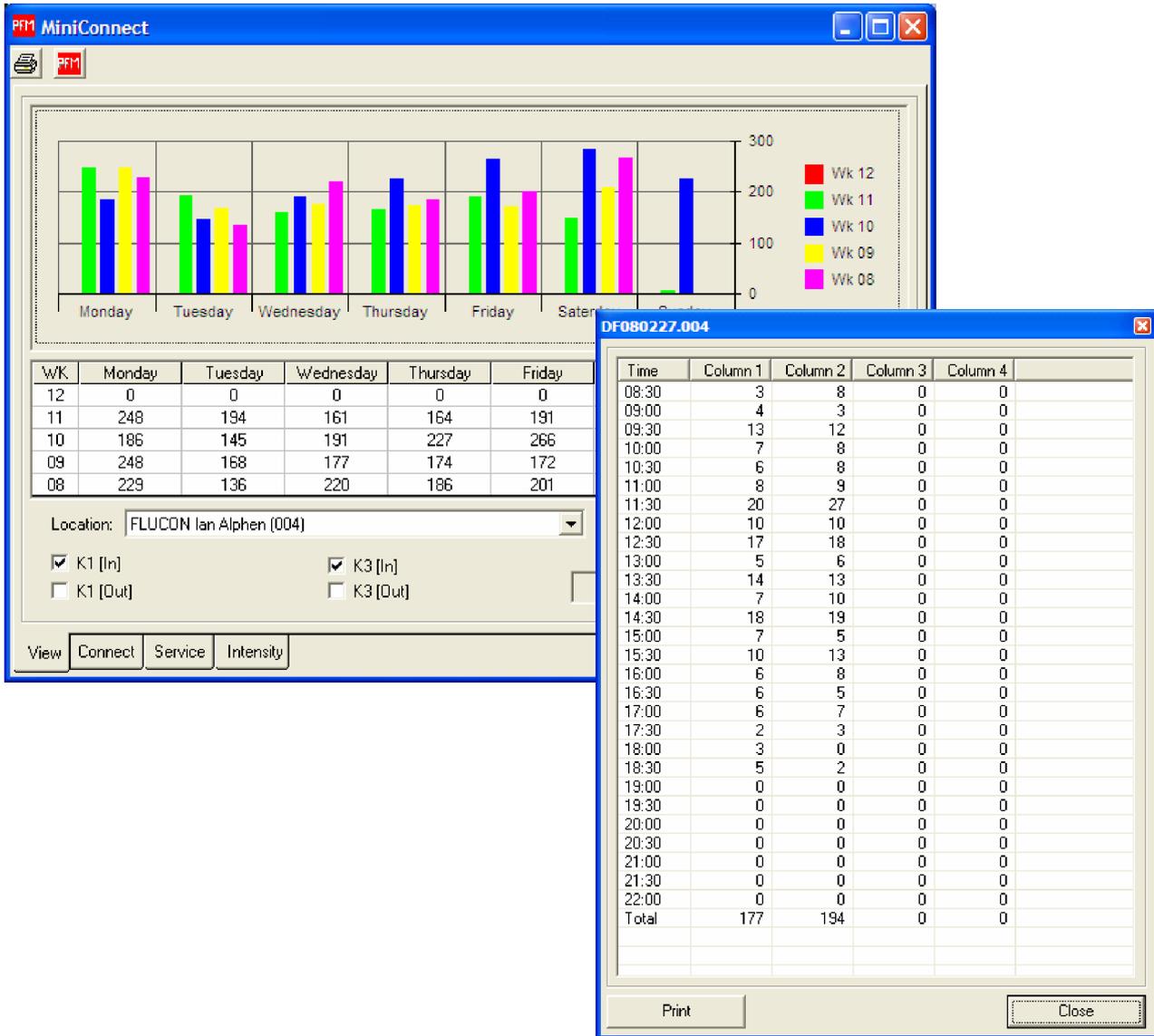
The "Null Point" is the time the system resets the counter to zero and can be changed to any specific time. The max. value is the actual alarm value that will activate the printer port pin 5 for the external alarm option. In the Alert value 1 thru 4, 4 different pre-alarm values can be set as a percentage of the maximum value. The percentage is selected and the actual value is indicated.

To compose an e-mail warning message, set the address to: and address from: to recognize the e-mail with the subject. The actual message can be set as shown to indicate the alarm value and current value. To automatically read the correct numbers use the codes as shown i.e. \$TT for alarm value and \$TA for actual value.

Select the sensor set(s) for the intensity calculation.

Note: Intensity calculations are based on a correct installation of the bi-directional sensor set(s). From the file column 1 and 3 should be the IN-direction and 2 and 4 the OUT direction. (A>B = IN, B>A = OUT)

Quick file review



For a quick review of the data per time interval, double click on the required day and the full counting information will be displayed.,