

Cleware sensor products with SysManSMS Server

Install Cleware USB sensors and send mobile SMS alerts at checkpoints



16 Channel INPUT and OUTPUT Device

Preface

The primary function of the SysManSMS System is to collect and distribute alerts generated by almost any Systems Management software. Such software could be the Cleware USB sensor software for easy monitoring your environments. The SysManSMS supported sensors are connected to a PC using standard USB connection and standard Windows drivers.

Sensors are delivered with control software to setup sensor limits and generate actions if a sensor's limit settings are exceeded. As soon as an event is triggered, a SysManSMS integration client program will be executed, and text alert sent to mobile numbers stored in one of your Number Files.

The sensor control software package is able to monitor and log all the sensors at same time, as long as the sensors are connected to the same PC. Cleware software supports up to 127 sensor devices.

Important

Before installing your sensors, you should make sure you have access to a working SysManSMS Server gateway. If you are installing sensors on same hardware as SysManSMS Server is running, you can carry on with the sensor installation. If you are installing on a remote PC, you must make sure the SysManSMS *client* kit is installed on this PC. See the SysManSMS Installation Guide.

It's a good idea to create a Number File and test it with the SysManSMS_Iclient before continuing !

Cleware sensor and software installation

1. The order of installing hardware or software is not important, but do not connect any channel input switch before the initial Cleware settings are done.
2. Insert the SysManSMS CD in the CDROM drive on the PC where sensor(s) will be connected. With your File browser go to Options -> Cleware folder and start **SETUP**
3. Now continue installation up to the *Finish* point. If not done, now connect the USB cable.

Control software

From **Start > Programs**, start the *ClewareControl* program. You will immediately after the program start see the status of the sensor device. (If not seen, use *Refresh* menu) If you have multiple sensors, each will have its own color. Each sensor is manufactured with individual serial numbers.

Integration with SysManSMS Server gateway

In the control software, settings for each sensor can be added or modified. For the IO16 device, each channel can be set to start a program if input channel changes. The software is fully compatible with the SysManSMS_Iclient and its associated Number Files. Do the following to setup Iclient integration:

- From the *ClewareControl* program's menu, select **View > Device Settings**
- In the Device Setting screen you may rename the sensor for easier recognition
- **IMPORTANT:** In the Contact configuration, set all 16 channels to INPUT mode
- You can now safely connect your switch device(s) to the input plug of the IO16 device

Any potential free switch can be connected between channel pin and a ground pin of the 25 pin D-Sub connector:

D-Sub Pin	1	2	3	4	5	6	7	8	9	10	11	12	13	23	24	25	14 - 22
Channel	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	Ground

SysMan delivers advanced sensors like "missing 220V", to be connected to IO16 device. Contact SysMan for details.

- Select your active channel and select ADD in the Switch point window
- Decide if the action should be taken at *Opened* or *Closed* input; or both
- Set Action type to **Start program**

In the Action field, type the path to the SysManSMS_Iclient program, the parameters you want to go with the alert and the name of a Iclient Number File (*week_1*). If Number File given, default is the SysManSMS_Iclient.lst in Iclient folder. Please refer to the SysManSMS Server User and Developers Guide for information on how to use the Iclient program and the Number File Editor. Example:

```
C:\Program Files\SysManSMS\Iclient\SysManSMS_Iclient.exe
"Sensor: %SN% is CLOSED" ":week_1"
```

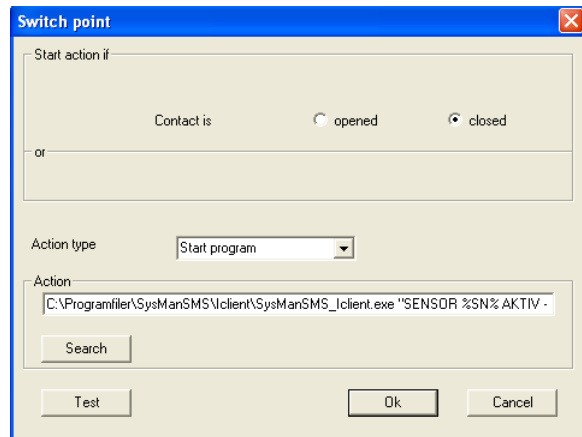
Note the apostrophes (") around the Text and Number File parameters for the Iclient.

Also note the colon (:) to indicate that this is the name of a *local* stored Number File. By use of a two colon indicator (::) you will be able to specify a Number File stored in the Servers Iclient folder.

Now click the **Test** button to verify settings. If the settings are correct, you should receive an SMS

Sensor text variables:

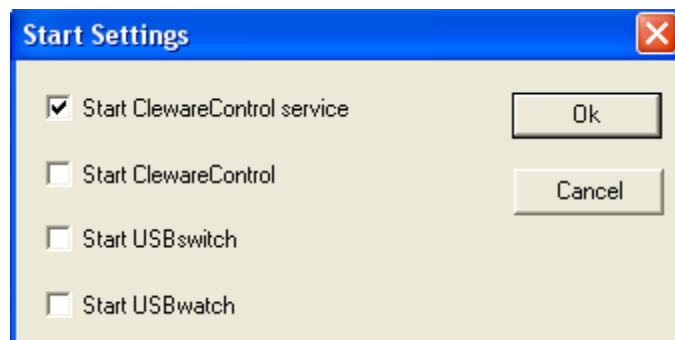
- %SN%** = Sensor Name
- %DT%** = Date and Time
- %DA%** = Date
- %TI%** = Time



Run Cleware software in background

To have your Cleware sensors start at Windows startup, you will have to indicate this.

- From the *ClewareControl* program's menu, select **View > Start Settings**
- In the Start Settings dialog, enable the *Start ClewareControl Service*



IMPORTANT:

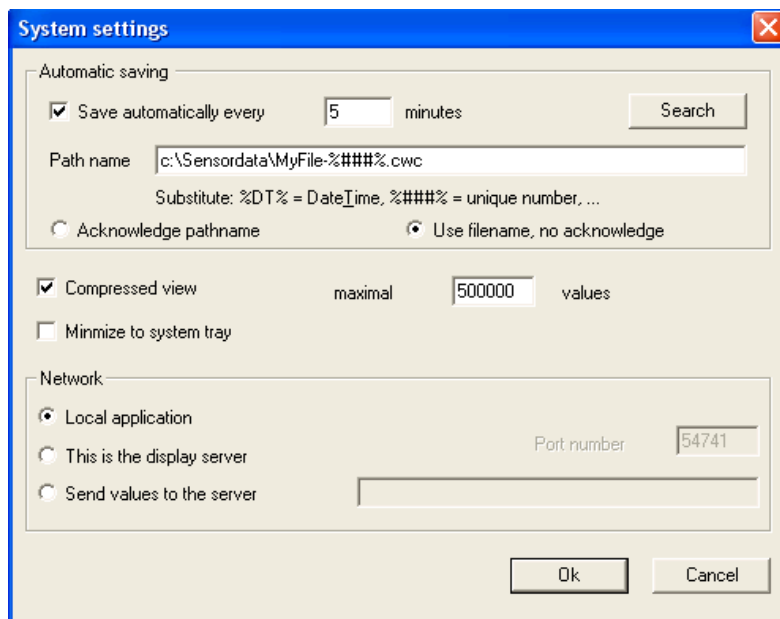
If your SysManSMS lclient is a remote installation (not located on SysManSMS Server) you must make sure that the account used by the Cleware Service has access to the SysManSMS Server.

Either use a domain account, or alternatively use an account with same Username/Password.

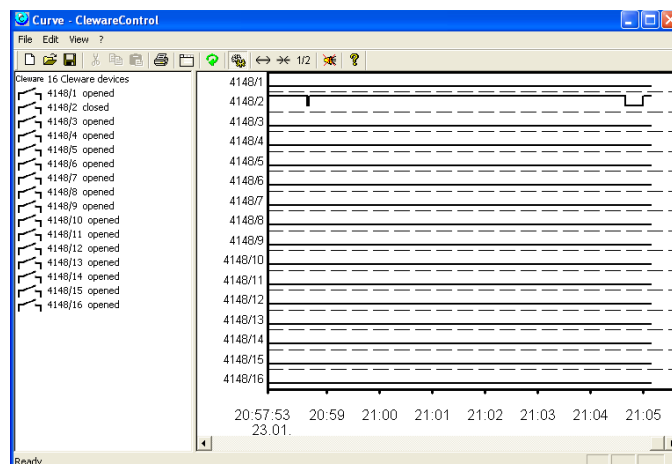
Save sensor data to history file

To have your Cleware sensors store data for later review, do the following:

- From the *ClewareControl* program's menu, select **View > System Settings**
- Enable the *Save automatic every* – and then enter a sample interval value
Enter a Path and file name for your history file: C:\SensorData\MyFile-#####.cwc
Note: Use %DT% or %###% as part of file name to make it a unique name
- Click the Use filename, no acknowledge; and then click **Ok** to finish definition.



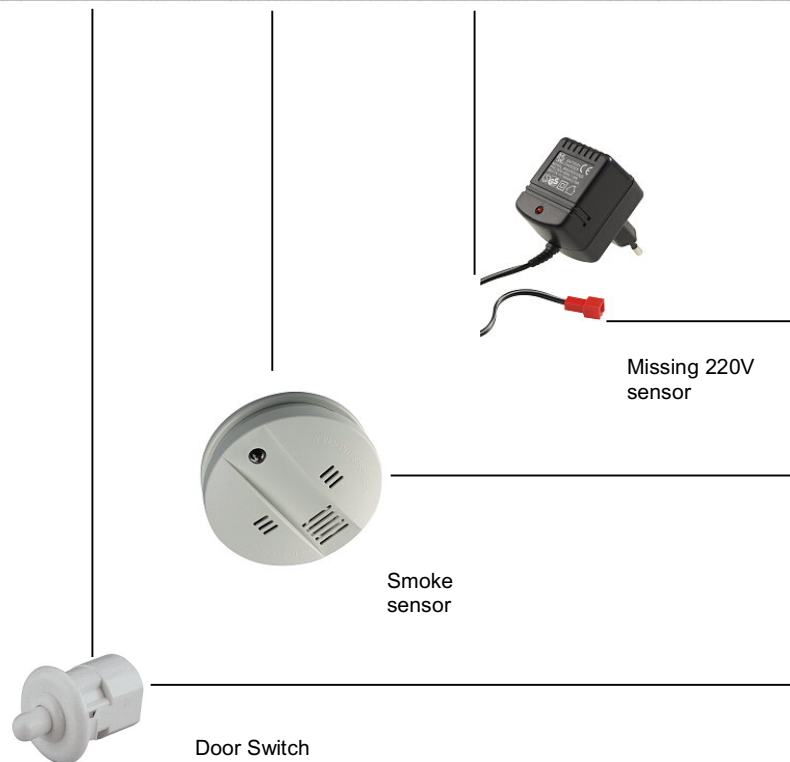
To view your historical data, go to the folder you selected and double-click on your file.
Cleware Control will start a view of your saved data.



USB-IO16 Connection examples:



D-Sub Pin	1	2	3	4	5	6	7	8	9	10	11	12	13	23	24	25	14 - 22
Channel	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	Ground



Note: All inputs to the USB-IO16 device is potential free open/closed switches