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Setup sigma network

**Interface**

To set up the network you need an interface between the PC and the network. (209/00550/00)

The interface has 4 connectors for the network. On each connector can be 32 machines connected.

**Wiring**

4 wires of min. 0.75mm².

To interface (209/00551/00)
Setup sigma network

Connection cables

Connect machines to the network

Is on the back of the machine by the power connection
### Setup address of the wash machines:

<table>
<thead>
<tr>
<th>Code</th>
<th>00 00</th>
</tr>
</thead>
<tbody>
<tr>
<td>Set</td>
<td>00 00</td>
</tr>
<tr>
<td>11</td>
<td>t iM</td>
</tr>
<tr>
<td>tmp</td>
<td>n</td>
</tr>
<tr>
<td>0</td>
<td>a dr</td>
</tr>
</tbody>
</table>

**Press Select button and hold it.** Press shortly the eco button and release the select button

**With the start and eco buttons you can change the number to enter the settings.** Press the select button to go to the next step. If the code was not correct you have to restart this procedure. All new machines have code 0000

**With the start and eco buttons you can now set the code that you like.** Make sure you don’t forget this code. Press the select button when you are ready

**Press select button to go to the next step**

**Press select button to go to the settings of the adress.**

**With the start and eco buttons you can now change the adress.** Make sure that each machine has a different adress. Press the select button to store these settings

### Setup address of the dryers:
Setup address of the machines

**Setup address of ironers:**

Ironer with start-stop control:

When you power up the ironer “IPSO” will appear on the display for 5 seconds. In these 5 seconds you have to press the start and enter button at the same time until “Manu” is displayed. With “+” or “-“ you can scroll through the
Ironer with coin control:

When you put power on the ironer IPSO will appear on the display. Press now on the switch in the coin box until “coin” is displayed. Press now the enter button until 3 flashing stripes are on the display. Release the enter button and press again the switch and 3 coin buttons “coin” is displayed. With the “+” and “-“ button you can now scroll through the different groups. In the “tech” group you can change the address.
Fill in the address and press enter to save it.

**Installation of the sigma explorer:**

Run setup from the CD and the software will be installed to your PC. He will ask a registration code. To get this registration code you will have to call IPSO.
Setup the explorer to run in your laundry:

Start the program. The screen below will appear.

Sigma Explorer

Click now on Add
Mark now all machines that you have in your laundry (f.i. [ ] Wash 2) Wash machine with address 2 is now activated.

You can also click on [AutoConfigure] The explorer will automatic look for the machines that are connected to the network.

Click [OK] when you are finished.

Sigma Explorer

Now all machines of your laundry will appear on the screen.
On the right you will see remarks. ‘No Answer’ means that the explorer doesn’t find the machines. Now you have to check what’s wrong:

1. Change com-port in the explorer.
2. Network is not connected right
3. There is no power connected to the interface
4. Address of the machines is not correct
5. The machines are not powered up

Sigma Explorer

Select com-port:

To change the com-port of the explorer click
Click on `Program Options`.

Select serial port to which the Sigma Network is connected:
- Com1
- Com2
- Com3
- Com4

Select the com port where the interface is connected to and click “OK”.

Sigma Explorer can be found at b.sxp.
Control your machines over the net:

On the screen you will see all the machines that are connected. To get a detailed view of one of the machines click on the right mouse button.

```
<table>
<thead>
<tr>
<th>machine</th>
<th>temp</th>
<th>time</th>
<th>pig</th>
<th>on</th>
<th>wait</th>
<th>cool</th>
<th>heat</th>
<th>heat</th>
<th>normal</th>
<th>residual</th>
<th>remaining</th>
</tr>
</thead>
<tbody>
<tr>
<td>Wash 1</td>
<td>No</td>
<td>No</td>
<td>No</td>
<td>No</td>
<td>No</td>
<td>No</td>
<td>No</td>
<td>No</td>
<td>No</td>
<td>No</td>
<td>No</td>
</tr>
<tr>
<td>Wash 2</td>
<td>No</td>
<td>No</td>
<td>No</td>
<td>No</td>
<td>No</td>
<td>No</td>
<td>No</td>
<td>No</td>
<td>No</td>
<td>No</td>
<td>No</td>
</tr>
<tr>
<td>Wash 3</td>
<td>No</td>
<td>No</td>
<td>No</td>
<td>No</td>
<td>No</td>
<td>No</td>
<td>No</td>
<td>No</td>
<td>No</td>
<td>No</td>
<td>No</td>
</tr>
<tr>
<td>Wash 4</td>
<td>No</td>
<td>No</td>
<td>No</td>
<td>No</td>
<td>No</td>
<td>No</td>
<td>No</td>
<td>No</td>
<td>No</td>
<td>No</td>
<td>No</td>
</tr>
<tr>
<td>Wash 5</td>
<td>No</td>
<td>No</td>
<td>No</td>
<td>No</td>
<td>No</td>
<td>No</td>
<td>No</td>
<td>No</td>
<td>No</td>
<td>No</td>
<td>No</td>
</tr>
<tr>
<td>Wash 6</td>
<td>No</td>
<td>No</td>
<td>No</td>
<td>No</td>
<td>No</td>
<td>No</td>
<td>No</td>
<td>No</td>
<td>No</td>
<td>No</td>
<td>No</td>
</tr>
<tr>
<td>Wash 7</td>
<td>No</td>
<td>No</td>
<td>No</td>
<td>No</td>
<td>No</td>
<td>No</td>
<td>No</td>
<td>No</td>
<td>No</td>
<td>No</td>
<td>No</td>
</tr>
<tr>
<td>Wash 8</td>
<td>No</td>
<td>No</td>
<td>No</td>
<td>No</td>
<td>No</td>
<td>No</td>
<td>No</td>
<td>No</td>
<td>No</td>
<td>No</td>
<td>No</td>
</tr>
<tr>
<td>Op 1</td>
<td>No</td>
<td>No</td>
<td>No</td>
<td>No</td>
<td>No</td>
<td>No</td>
<td>No</td>
<td>No</td>
<td>No</td>
<td>No</td>
<td>No</td>
</tr>
<tr>
<td>Op 2</td>
<td>No</td>
<td>No</td>
<td>No</td>
<td>No</td>
<td>No</td>
<td>No</td>
<td>No</td>
<td>No</td>
<td>No</td>
<td>No</td>
<td>No</td>
</tr>
<tr>
<td>Op 3</td>
<td>No</td>
<td>No</td>
<td>No</td>
<td>No</td>
<td>No</td>
<td>No</td>
<td>No</td>
<td>No</td>
<td>No</td>
<td>No</td>
<td>No</td>
</tr>
<tr>
<td>Op 4</td>
<td>No</td>
<td>No</td>
<td>No</td>
<td>No</td>
<td>No</td>
<td>No</td>
<td>No</td>
<td>No</td>
<td>No</td>
<td>No</td>
<td>No</td>
</tr>
<tr>
<td>Op 5</td>
<td>No</td>
<td>No</td>
<td>No</td>
<td>No</td>
<td>No</td>
<td>No</td>
<td>No</td>
<td>No</td>
<td>No</td>
<td>No</td>
<td>No</td>
</tr>
<tr>
<td>Op 6</td>
<td>No</td>
<td>No</td>
<td>No</td>
<td>No</td>
<td>No</td>
<td>No</td>
<td>No</td>
<td>No</td>
<td>No</td>
<td>No</td>
<td>No</td>
</tr>
</tbody>
</table>

```

Sigma Explorer

Click now on Details of wash 5

```
<table>
<thead>
<tr>
<th>Details of washing machine 5</th>
<th>software version</th>
</tr>
</thead>
<tbody>
<tr>
<td>General info</td>
<td>Outputs</td>
</tr>
<tr>
<td>Temperature: 0°C</td>
<td>Cycle: off</td>
</tr>
<tr>
<td>Time: 0 min</td>
<td>Right: off</td>
</tr>
<tr>
<td>Program number: 0</td>
<td>Left: off</td>
</tr>
<tr>
<td>Section: 0</td>
<td>Spin: off</td>
</tr>
<tr>
<td>Level: 0 cm</td>
<td>Heat: off</td>
</tr>
<tr>
<td>Speed: 1 rpm</td>
<td>Soap: off</td>
</tr>
</tbody>
</table>
```
Now you see more in detail all the input and output of the machine. You can also start and stop the machine over the net.

If you click on the graph, you will see a graphic with the °C, RPM and water level.
Select the machine you will program and click on 🔄 Read or 🔄 Write.

Select the file you will download and click on “open”. The new wash programs will now be downloaded into the sigma.

Give a filename and click on “save”. The wash programs of the sigma will now be saved on to the PC. With ‘sigma organizer’ you can now look what is programmed.

**Sigma Explorer**

**Change price during the day:**

You can easily decrease the price during the non-peak hours of your laundry.

Click on tools→ tariff

- Add / remove machine F2
- Tariff F4
- Parameters F7
- Flash washing machine F8
You can select between “low”, “med” or “high” price. The explorer will change the price on the machines on the right time. (makes sure the clock on the PC is correct).

Sigma Explorer

Changing parameters over the net:

Click on Tools-> parameters
Technical group:

Select the machine you will read out and click on "Read".

Indicates the calibration of the water level switch. This value cannot be changed.

Activate or deactivate the temperature readout on the display.

Coin count of the machine.

! If you didn’t activate the coin count in the configuration of the wash programs, the read-out will be 0.

Sigma Explorer

Coin index: Count the total working hours of the machine. This value cannot be changed.

Price group:
Here you can change the price settings of the machine. You can read in the price settings of the machines change them and write the new price settings to the machine. You can also save this file and later load it again. In this way you can make a library of different price settings.

Sigma Explorer

Time (fixed) group:
In this way you can fix the time that will be displayed on the machine. This means that all machines in the laundry will show the same time for the same program.
This is the time that the sigma has measured the last time of each program. If you have several machines with the same program you will see that sometimes the measured time can be a little different, so every machine with the same program can show different times. If you after a while make an average of each program time you can fill them in in the “time (fixed) menu”. In this way you have a good average time that always will be the same for each machine.
**Type group:**

<table>
<thead>
<tr>
<th>Type machine</th>
<th>Celsius</th>
<th>Flash</th>
<th>Remote</th>
<th>Steam</th>
</tr>
</thead>
</table>

Celsius: Select if the machine is Celsius or Fahrenheit.
Flash: Flash the display between temperature and time.
Remote: If the machine is started with central panel
Steam: Select if the machine is steam heated.

<table>
<thead>
<tr>
<th>Tarif</th>
<th>Coin1 Low</th>
<th></th>
<th>Coin2 Low</th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>0</td>
<td></td>
<td>0</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>0</td>
<td></td>
<td>0</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Time that the machine will run with one coin. You can fill in 3 different times (low, medium, high) if you work with different prices during the day. (see Tarif settings page)

<table>
<thead>
<tr>
<th>Count</th>
<th>Coin 1</th>
<th></th>
<th>Coin 2</th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>0</td>
<td></td>
<td>0</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Coin count of the machine.

**Sigma Explorer**

**Program group:**

![Program Parameters](image)
Here you can change the programs of the machine.

Sigma Explorer

Ironer:
Technical group:

| Correction Low | 0 | dm/min |
| Correction High | 0 | dm/min |

Correction low: If the temperature of the ironer goes below the programmed temperature the speed will go down according to the speed you programmed.
Correction high: If the temperature of the ironer goes above the programmed temperature the speed will go up according to the speed you programmed here.

Example:
Temperature programmed 140°C speed 3m/min
Correction low = 1
Correction high = 0.5

<table>
<thead>
<tr>
<th>Temperature(°C)</th>
<th>speed(m/min)</th>
</tr>
</thead>
<tbody>
<tr>
<td>140</td>
<td>2</td>
</tr>
<tr>
<td>145</td>
<td>2.5</td>
</tr>
<tr>
<td>149</td>
<td>2.9</td>
</tr>
<tr>
<td>150</td>
<td>3</td>
</tr>
<tr>
<td>152</td>
<td>3.1</td>
</tr>
</tbody>
</table>

Sigma Explorer

<table>
<thead>
<tr>
<th>Hysteresis 1</th>
<th>0</th>
<th>°C</th>
</tr>
</thead>
<tbody>
<tr>
<td>Hysteresis 2</td>
<td>0</td>
<td>°C</td>
</tr>
</tbody>
</table>

Hysteresis 1: Value in °C that the temperature may drop down before the heating relay comes back on.
Hysteresis 2: If you have 2 groups of heating the heating relay of the second group will be
activated according the temperature that you programmed here.

Coin count of the machine in total hours of running.

Type of machine.

Sigma Explorer

Program group:
Changes the program of the machine.

Sigma Explorer

Tarif group:
Changes the price setting of the ironer
Also here you can fill in 3 different times for each coin. This is necessary when you work with different prices during the day (see tariff settings page)

Sigma Explorer

Control network from your office with PC at the laundry:

Setup the network in the laundry with a PC and install a modem on your PC

Start the sigma explorer and click on
Select slave mode: This allows you to call in to this PC from your office.

Sigma Explorer

Click [Identify]
Fill in the fields with the correct data. This data will be used if you let the machines send an E-mail if any error occurs. In this way you now from where the E-mail comes.

Sigma Explorer

Click now on Slave Setup
Password protection when you call in from your office you need to fill in this password to get access.

Select the modem that is installed on the PC

If you enable E-mail you have to fill the data of your provider and the E-mail address where you will send the E-mail. This makes it possible to E-mail every error that occurs on the machines.

Mail data file: This will send you over the xxxxxxxx.sxp every day at the time that you have set. This file you can now open in the sigma Analyser.

Mail errors when they occur: This will send an E-mail when an error occurs on a Machine.

Setup the PC at your office.

Install the sigma explorer and click on
Select “Master” mode and click on **Identify**.
Fill in the location and address of the PC. This data will be shown on the PC at the laundry. In this way you now who was calling to the network.

Click now on **Master Setup**

Sigma Explorer
In the Master Setup menu you can make a telephone book of each laundry. This makes it easy later if you won’t to call up a laundry and check how the machines are running.

Location : Place of the laundry
Telephonenumber : number to dial to get online with the laundry
Password : Code that is filled in on the PC at the laundry.

Click

Sigma Explorer

Click now on Tools->Dial
Now you will select the modem of your PC.

Select the location of the laundry. You will have an entire list of all the laundries that you have filled in, in the master setup mode.

Click on Call to get connected.

Connected to the network from your office.
You can now control the complete laundry from your office.

Display that indicates the status of the gateway.

Data connection to mobile phone
Make a network in your laundry and connect it to the gateway.

To set up the gateway you have to install the gateway setup software to a PC. Connect the RS232 of your PC with the data connection port of the gateway.

Gateway

Start up the software.
If you click on log in, Gateway detected
will appear in this window. This means
you are connected to the gateway and that
you can change the parameters.

If you call in from your office, with the sigma explorer,
to check on the machines, you have to fill in this password
to get access.

This is the pincode of your mobile phone.

Name of the laundry. This name will be send
over in the SMS text to your mobile phone.

Number of your provider to send an SMS text

Number where the SMS text should be send

<table>
<thead>
<tr>
<th>Washing machine</th>
<th>Dryer</th>
<th>Pro HC</th>
<th>Ionizer</th>
</tr>
</thead>
<tbody>
<tr>
<td>Machine 1 addr.:</td>
<td>0</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Machine 2 addr.:</td>
<td>0</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Machine 3 addr.:</td>
<td>0</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Machine 4 addr.:</td>
<td>0</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Machine 5 addr.:</td>
<td>0</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Machine 6 addr.:</td>
<td>0</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Machine 7 addr.:</td>
<td>0</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Machine 8 addr.:</td>
<td>0</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Machine 9 addr.:</td>
<td>0</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Machine 10 addr.</td>
<td>0</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Fill in the addresses of the machines that
you have setup in your laundry.

Disconnect your PC from the gateway and connect the mobile phone to the gateway.
If there’s now an error on a machine the gateway will transmit an SMS text to the number that you have filled in on the gateway.

The gateway is made so that the same error on the same machine will not be send again until somebody solved the problem and resets the gateway.

**Reset the gateway:**

<table>
<thead>
<tr>
<th>RESET ERRORS</th>
<th>YES &gt;NO&lt;</th>
</tr>
</thead>
</table>

Press the reset button and hold it until reset errors will appear on the display and release the reset button.

<table>
<thead>
<tr>
<th>RESET ERRORS</th>
<th>&gt;YES&lt; NO</th>
</tr>
</thead>
</table>

Press the reset button again and hold it until “yes” is marked.

Errors erased

Press shortly on the reset button and the errors will be erased.

Install the sigma analyzer on the PC.
When you start up the sigma analyzer the window below will appear on your screen.

Click on **Open File** to read in a file that the explorer has saved.

Select the file you need and click on “open”
Now you see of each machine how many hours it was running that day.

Click on “Wash prog”
Now you can see the program that is most used that day.