



# PC Program

## KOMES



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## KOMES PC Program

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## KOMES PC Program

### 1.) Installation of the PC program

The KOMES PC program runs under Windows 95, 98, ME, 2000, XP.

To install the PC program, insert the CD-ROM containing the KOMES PC program into the CD drive of your computer and click on this drive.

In the screen that now appears, click on the "Setup" folder with the left mouse button. In the "KOMES Setup" screen, click on the

"Install" button with the left mouse button. You will be asked once again whether you want to install the program. Start the installation by clicking on the "Yes" button.

This will install the PC program. Once the program has been installed successfully, the installation is completed by pressing the "OK" button.

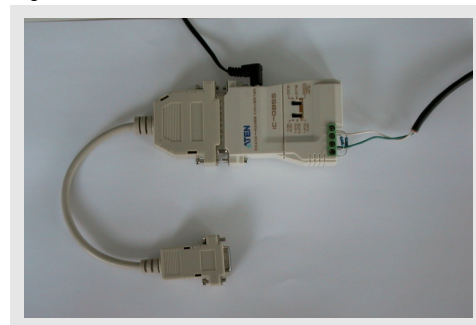
The KOMES PC program can now be started.

### 2.) Establishing the communication between the PC and KOMES-MG

To establish the communication between the PC and KOMES-MG, the converter must be installed as shown below (Figure 1).

- Plug 3-pin mini Din plug of the converter into the "RS 485" socket of the KOMES-MG.
- Connect the 9-pin Sub-D plug of the converter to the PC.
- Use the enclosed power supply unit, to establish the power supply for the converter.
- The switches of the converter must be set as follows:  
1st switch to "T.On / R.On" and the 2nd switch to "DCE".

Figure 1: "Converter"



### 3.) Starting the KOMES PC program

Open the PC program by clicking on the icon on the desktop. This will get you to the main menu of the program (Figure 2).

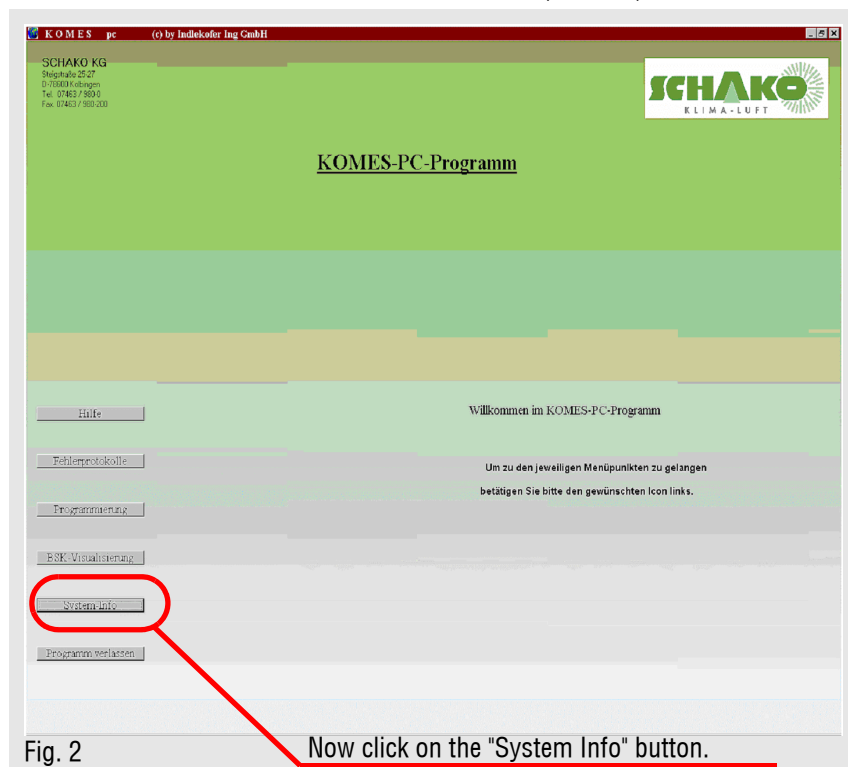
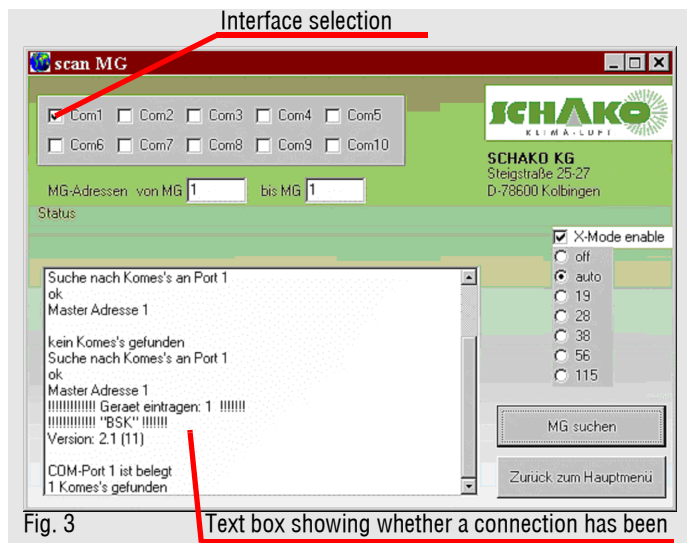


Fig. 2 Now click on the "System Info" button.

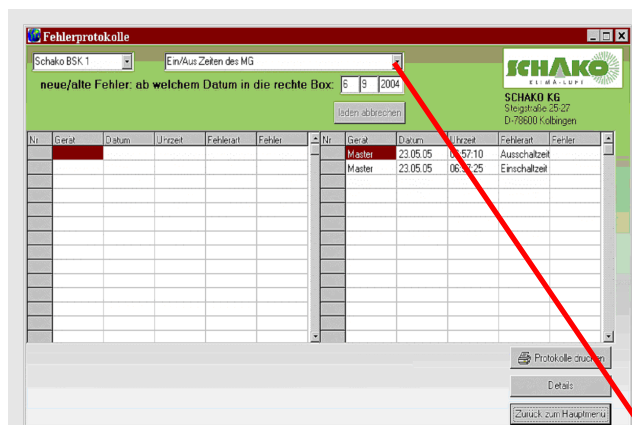
## KOMES PC Program

### 4.) Software communication between the PC and KOMES-MG



This gets you to the "Scan MG" menu (Figure 3). Here you select your serial interface by mouse click. If you now click on the "Find MG" button, a text line will appear in the bottom left box which will tell you whether the master device has been found.

### 5.) Reading out errors in KOMES-MG



To read out saved errors, press the "Error Logs" button in the main menu. This will get you to the menu shown below (Figure 6). The progress indication tells you how long the loading process will take. You can now view individual logs or view the overall log and print it out.

Fig. 5

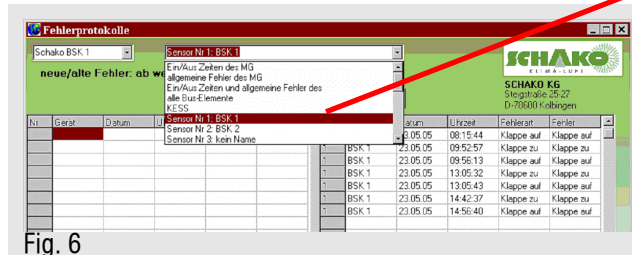


Fig. 6

### 6.) Visualisation of the fire dampers via the PC program

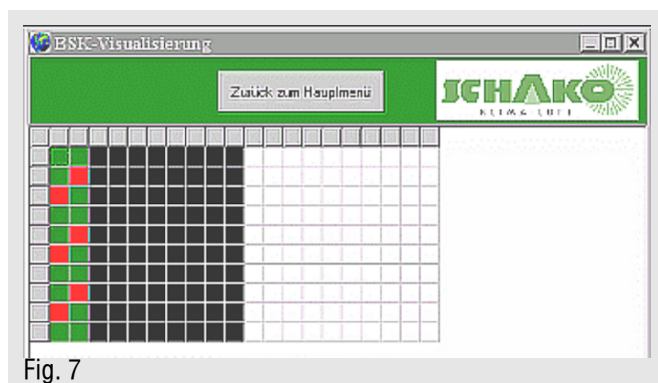


Fig. 7

It is also possible to display the LED visualisation on the monitor by pressing the "BSK Visualisation" button in the main menu. The figure (Figure 7) showing the individual LEDs is shown below. The figure shows the LEDs in the order in which they are listed. Thus, the first LED is also the first user in the line. The above figure shows that the 3rd LED, 6th LED, 9th LED, 12th LED, 15th LED and 18th LED light up in red. This means that these fire dampers are closed. The LED lit in green signal open fire dampers. Dampers that have not been assigned are shown in black.

## KOMES PC Program

### 7.) Programming of the KOMES system

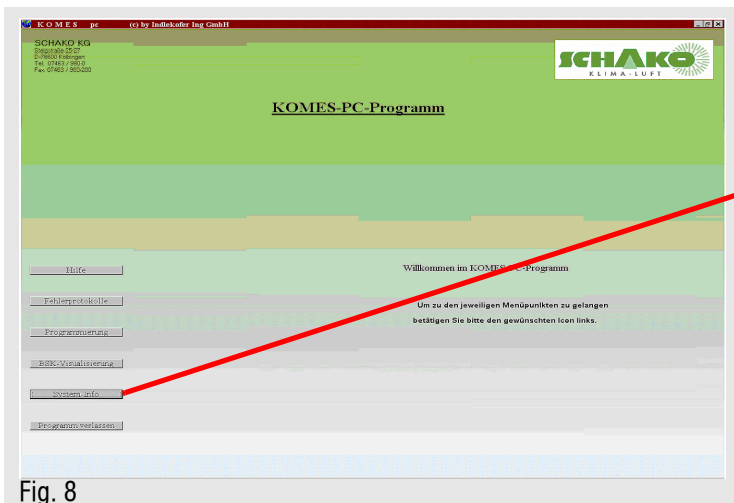


Fig. 8

Upon clicking on the "Programming" button in the main menu, the "LED, Relay Allocation" screen (Figure 9) is opened.

If no communication with the master device is possible, a note to that effect is displayed.

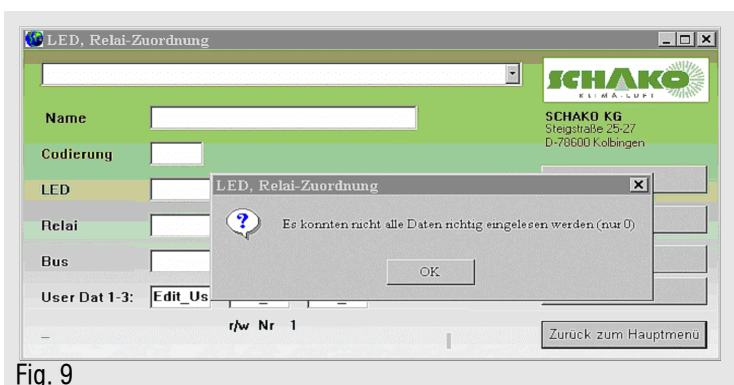


Fig. 9

Once communication has been established with the master device, the screen shown below is displayed, and the connected bus modules are read in automatically.

While the bus modules are being read in, the counter (bottom centre) keeps running.

While the modules are being read in, the counter always shows one module more than the number of bus modules that are detected. After the read-in process is complete, the settings of the first bus module (HES, KESS, SMB and LB) are displayed.

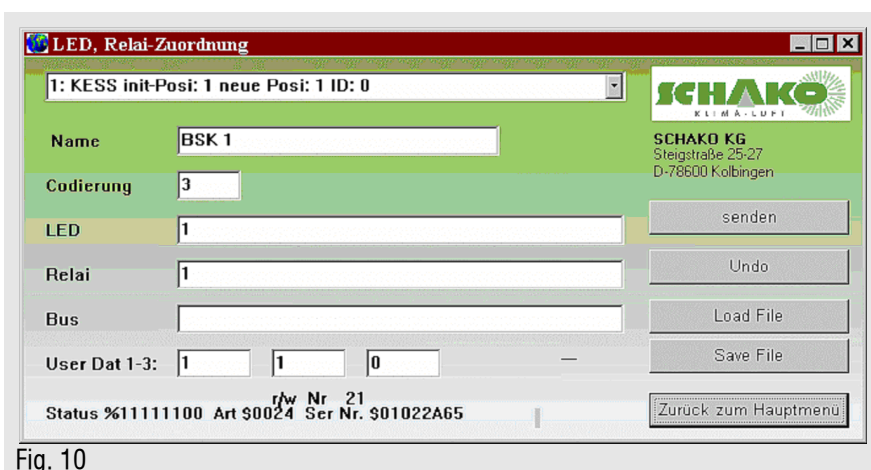


Fig. 10

Figure 10 shows that the module detected first in the bus is a KESS module. It is displayed on LED 1, and the first potential-free contact is allocated to this module on the relay card.

To change the entries, click on the line to be changed with the left mouse button and make the change on the keyboard.

To change the settings of other modules (IDs), click on the drop down menu in the top line and select the desired module (ID) by clicking it with the left mouse button.

After the data changes (name, coding, allocation of the LED, allocation of the contacts of the relay card and the switching functions in the bus), the data must be sent to the master

device. To "send" the data, you first have to activate the "PC Mode" in the master device. The "PC Mode" is activated by pressing the acknowledgement key on the master device for 3-4 seconds, and the display on the master device will show "PC Mode". Next click on the "Send" button with the left mouse button. The "Send" process is complete as soon as the counter bottom right shows the correct number of the connected modules (IDs).

To enable the master device to process the changed data, the Reset button on the master device must be pressed shortly, after the data has been sent.

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### 8.) Data backup of the programming

When data has been newly created or changed, it is recommended making a data backup of the programming to an external data carrier.

**Saving the programming**

Establish communication between the PC and the master device KOMES-MG (see 2.).

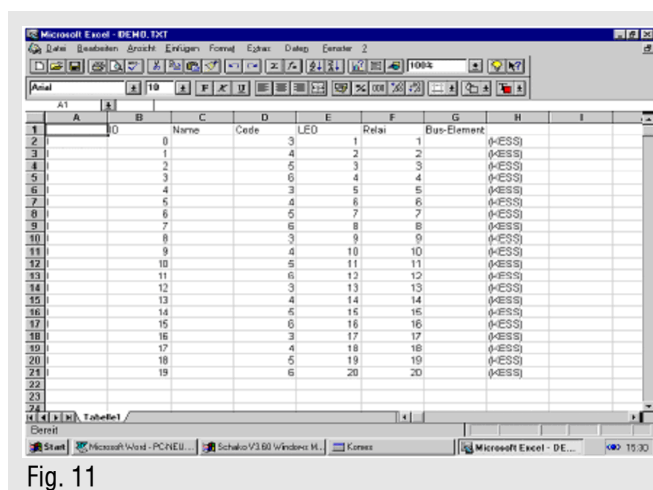
In the main menu, select the "Programming" function. This will open the "LED, Relay Allocation" window and read in the programming data from the KOMES-MG master device into the PC program (see 7.).

After reading in the programming data, the "Save File" button is pressed. In the window that now appears, the target counter is selected, and the filename is entered. The programming is saved to the data carrier by pressing the "OK" button.

In the "LED, Relay Allocation" window, the programming can be also be read from the data carrier into the KOMES PC program by pressing the "Load File" button and transmitted to the master device KOMES-MG by pressing the "Send" button.

### 9.) Allocation of the LEDs, relay contacts and bus switching functions in Excel

In order to change the allocations in MS-Excel, the data is read from the master device into the PC as described under 7.). After reading in the programming data, they can be saved in "TXT Format" as described under 8.) by clicking on "Save File". The "txt file" can then be opened in Excel.



	A	B	C	D	E	F	G	H	I
1		0	Name	Code	LED	Relais	Bus-Element		
2		1		4	2	2	(-ESS)		
3		2		5	3	3	(-ESS)		
4		3		6	4	4	(-ESS)		
5		4		3	5	5	(-ESS)		
6		5		4	6	6	(-ESS)		
7		6		5	7	7	(-ESS)		
8		7		6	8	8	(-ESS)		
9		8		3	9	9	(-ESS)		
10		9		4	10	10	(-ESS)		
11		10		5	11	11	(-ESS)		
12		11		6	12	12	(-ESS)		
13		12		3	13	13	(-ESS)		
14		13		4	14	14	(-ESS)		
15		14		5	15	15	(-ESS)		
16		15		6	16	16	(-ESS)		
17		16		3	17	17	(-ESS)		
18		17		4	18	18	(-ESS)		
19		18		5	19	19	(-ESS)		
20		19		6	20	20	(-ESS)		

Fig. 11

As shown in Figure 11, the order of the automatic addresses, the allocation of the desired relay contacts and the bus switching functions can be programmed very quickly and simply. After the allocation of the LEDs, relays and switching functions, the file must be saved in "txt Format".

In the "Allocation" submenu function of the Komes PC program, the "Filename.txt" file can be loaded to the PC program by clicking on "Load File".

This data edited in MS-Excel can be transmitted to the master device by clicking on the "Send" button.

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### 10.) Input options

#### Name:

To enter the name of the components connected to HES, KESS or SMB.

#### Coding of the KOMES components:

Coding	Module	Description
-1	HES / SMB / LB	Standard
1	KESS	(Level2) switches 1 a. 2 = change-over contact
2	KESS	(Level2) switches 3 a. 4 = change-over contact
3	KESS	(Level1) switch 1 = NO contact
4	KESS	(Level1) switch 2 = NO contact
5	KESS	(Level1) switch 3 = NO contact
6	KESS	(Level1) switch 4 = NO contact
8	SMB-RSA	Switch 1 = NC contact
9	SMB-RSA	Switch 2 = NC contact
10	SMB-RSA	Switch 1 = NO contact
11	SMB-RSA	Switch 2 = NO contact
12	KESS	(Level1) switch 1 = NC contact
13	KESS	(Level1) switch 2 = NC contact
14	KESS	(Level1) switch 3 = NC contact
15	KESS	(Level1) switch 4 = NC contact

#### LED:

The allocation of the LEDs to the corresponding bus modules (ID point) can be freely selected.

Any number of LEDs can be allocated to a bus module.

However, only one bus module (ID point) may be allocated to an LED.

All LEDs can also be inverted by prefixing the corresponding number by a minus sign. Inverting means that the function of the LEDs, relays and bus switching functions runs in the opposite direction. Example: If the LED is prefixed by a minus sign, it will no longer be lit in green but in red when damper is open.

#### Relay:

The allocation of the relay contacts to the corresponding bus modules (ID point) can be freely selected.

Any number of relay contacts can be allocated to a bus module (ID point).

A relay contact can be addressed by any number of bus modules (ID points).

All relay contacts can also be inverted by prefixing the corresponding number by a minus sign.

#### Bus switching function:

The bus switching function allows fire dampers equipped with 24 V spring return drives, which are integrated in the bus line via SMB modules, to be activated. To activate an SMB module, the number corresponding to the position of the SMB module to be activated in the bus line is entered in the line "Bus" of the bus module (ID points) that is to give the control command.

Any number of SMB modules can be activated by a bus module (ID point).

The individual switching commands are separated by commas. If an SMB module is to be activated by several bus modules (ID points), each number must be prefixed by the symbol "&".

All switching functions can also be inverted by prefixing the corresponding number by a minus sign.

#### Deleting entries:

If, for example, only two switching contacts on a KESS module have been assigned, the remaining two switching contacts can be deleted. To delete switching contacts (ID points) that have not been assigned, the line in question in the assignment is not labeled.

#### Deleting the master device:

To delete the master device, go to the System Info menu and type in the password given to you by Schako. Now you can delete the entire program memory of the master device!