

BKSYS Fire damper mini-controller

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OVERVIEW AND LANGUAGE

The SCHAKO fire damper mini-controller is configured by means of the SCHAKO BKSYS PC software. In the modes described below, it allows:

1. **connection** to a SCHAKO BKSYS hardware
2. verification of the current **status**
3. read-out, display and export of the **log** memory
4. display and modification of the configuration **settings**

To select the current mode, click on the menu bar on the left on the corresponding button. To adjust the active language, after clicking the language selection button, select the desired interface language bottom left. The selected language only refers to the interface of the PC software and is independent of the configuration of the BKSYS hardware.

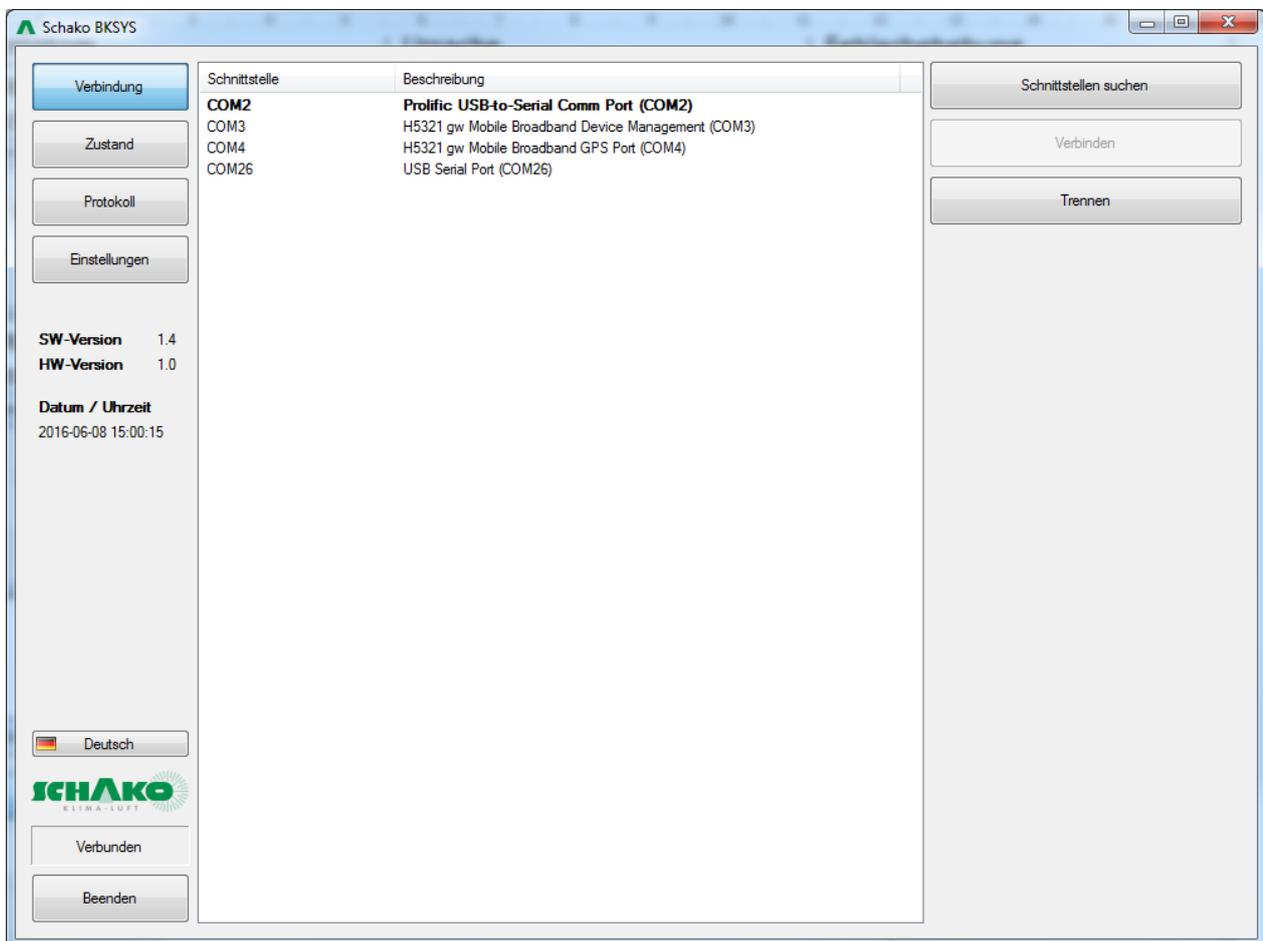


Figure 1: Connection View

CONNECTION

The connection to a BKSYS hardware is always made via a serial interface (COM port) of the PC used. If the PC has no such connection, a USB R232 converter can be used. For details on the driver installation and activation within the operating system, please refer to the operating instructions of the device in question.

After starting the BKSYS software, the available COM interfaces are shown in the window centre. Should the desired connection not be listed, please make sure that it has been installed and - in the case of a USB converter - plugged in correctly. Next, click the "Find interfaces" button, to update the list.

Select the interface used from the list and then click "Connect", to establish connection to the device and read out its

status information. A double-click on the list entry will give the same result. This should be followed by a display of information on the software and hardware versions and the current device time bottom left on the status bar. If the configured device time differs by more than an hour from the PC time, a warning message "System time differs" will be displayed additionally on the status bar. In this case, it is recommended adjusting the device time to the PC system time by going to the menu item "Settings".

Clicking the "Disconnect" button will stop the active connection to the hardware and release the COM port of the PC again.

Symptom	Cause	Troubleshooting
"Device does not respond" popup window 	Device not connected	Check whether the RS232 cable has been connected correctly to the X6 service socket.
	Device not running	Check whether the status LED at the basic module of the BKSYS is flashing in green. Check the supply voltage.
"Interface blocked" popup window 	A different program is using the selected COM port.	Close all other open programs. In case of doubt, restart the PC.
	BKSYS software has been opened several times.	Close the other instances of the BKSYS software or disconnect.

Table 1: Possible causes of errors when connection problems occur.

STATUS

The "Status" mode allows the user to read out the current operating status of the connected BKSYS hardware and display it visually. On the left window side, the module tree gives a quick overview of the basic module of all available terminals for fire dampers. For the currently selected elements, details on its status are shown bottom right. For a module, information on its terminal configuration, smoke detector input

status, test status and alarm status is available. For the selected terminal, the opening status of the connected damper and the last measured opening and closing times are displayed.

The graphical display of the current operating status right top corresponds to the appearance of the BKSYS hardware. This makes it easier to assign LED statuses and terminal positions.

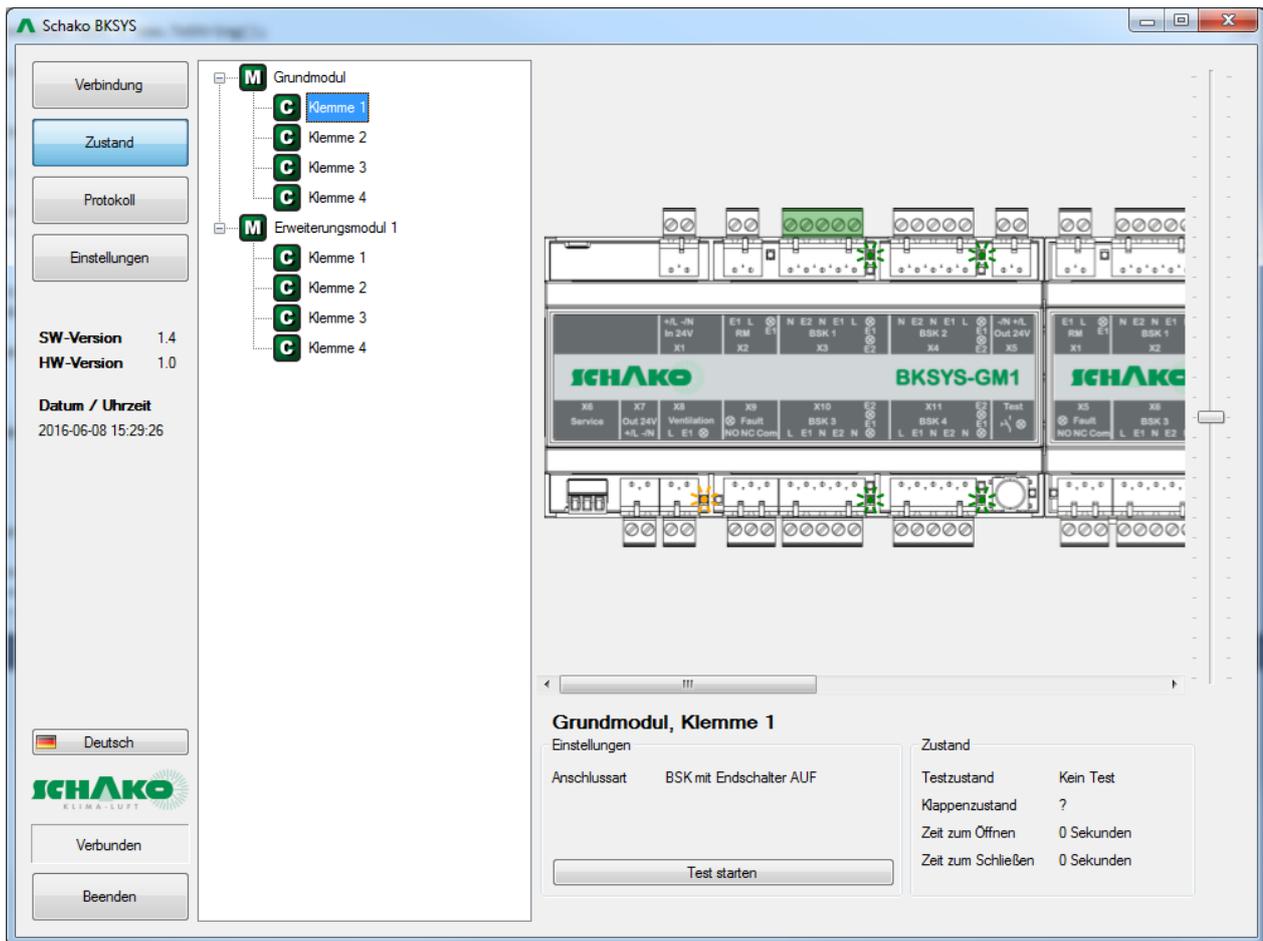


Figure 2: Status View

LOG

The device log allows all recorded events (e.g. opening/closing a damper or activating/deactivating an alarm status, smoke detector input and ventilation input) to be displayed. A click on the column heading will sort the table by the corresponding column, allowing certain entries to be found selectively. The "Index" column assigns a chronologically continuous number to each entry. The "Time" column is usually also arranged in chronologically ascending order, but this is not guaranteed due to the possibility of adjusting the time manually. "Event" describes the type of event that has taken place, while "Location" is only available for entries with direct reference to a module or a terminal/damper. When values are changed, the "Additional information" column always contains the new value, and when a damper is opened or closed, the time required for this is entered here.

Once a connection to the target device has been established, all subsequent new events are shown directly in the log list. Since it is always possible that several thousand entries are saved to the device, these existing entries are only read out completely upon request.

The lower part of the screen provides additional control elements: "Clear view" deletes all currently displayed log entries from the list, but NOT from the device. "Read more" loads another 100 entries from the device. "Read all" loads the entire log memory from the BKSYS hardware to the PC - this process may take some time and can be stopped, if necessary, by clicking "Cancel". For further use (e.g. in Microsoft Excel™), the currently read-out log entries can be saved to the hard disk by clicking "Export CSV file".

Entry	Description	Additional information
Restart	Restart of the device	Cause of the restart
Parameter changed	Configuration has been modified by PC software	-
Time changed	Device time changed by PC software.	-
Test triggered	Test run triggered by user	Cause of the test run
Test completed	Previously initiated test run has been completed	Test result and cause if failed
Smoke detector input	Status change at smoke detector input	New status
Ventilation system input	Status change at ventilation input	New status
Alarm	Change of alarm status	New status
Damper starts closing	-	-
Damper starts opening	-	-
Damper closed	-	Closing time, if available
Damper open	-	Opening time, if available
Time exceeded while closing	-	-
Time exceeded while opening	-	-

Table 2: Log Entries

Index	Datum / Uhrzeit	Ereignis	Ort	Zusatzinformationen
1692	2016-06-08 15:44:28	Alarm	Grundmodul	Inaktiv
1691	2016-06-08 15:44:28	Klappe geöffnet	Grundmodul, Klemme 3	76,18 Sekunden
1690	2016-06-08 15:44:24	Alarm	Grundmodul	Aktiv
1689	2016-06-08 15:44:24	Klappe beginnt zu schließen	Grundmodul, Klemme 3	
1688	2016-06-08 15:44:17	Alarm	Grundmodul	Inaktiv
1687	2016-06-08 15:44:17	Klappe geöffnet	Grundmodul, Klemme 1, Klappe 1	0 Sekunden
1686	2016-06-08 15:44:16	Alarm	Grundmodul	Aktiv
1685	2016-06-08 15:44:16	Klappe geschlossen	Grundmodul, Klemme 1, Klappe 1	0 Sekunden
1684	2016-06-08 15:44:12	Alarm	Grundmodul	Inaktiv
1683	2016-06-08 15:44:12	Klappe geöffnet	Grundmodul, Klemme 1, Klappe 1	0 Sekunden
1682	2016-06-08 15:44:09	Alarm	Grundmodul	Aktiv
1681	2016-06-08 15:44:09	Klappe geschlossen	Grundmodul, Klemme 1, Klappe 1	0 Sekunden
1680	2016-06-08 15:43:10	Eingang Lüftungsanlage		Aktiv
1679	2016-06-08 15:43:03	Klappe geöffnet	Grundmodul, Klemme 3	> Maximalzeit
1678	2016-06-08 15:42:59	Alarm	Grundmodul	Inaktiv
1677	2016-06-08 15:42:59	Eingang Lüftungsanlage		Inaktiv
1676	2016-06-08 15:42:54	Alarm	Grundmodul	Aktiv
1675	2016-06-08 15:42:54	Eingang Lüftungsanlage		Aktiv
1674	2016-06-08 15:42:54	Klappe beginnt zu schließen	Grundmodul, Klemme 3	
1673	2016-06-08 15:42:54	Eingang Lüftungsanlage		Inaktiv
1672	2016-06-08 15:42:54	Eingang Lüftungsanlage		Aktiv
1671	2016-06-08 15:42:54	Eingang Lüftungsanlage		Inaktiv
1670	2016-06-08 15:42:52	Alarm	Grundmodul	Inaktiv
1669	2016-06-08 15:42:52	Klappe geöffnet	Grundmodul, Klemme 4	54,36 Sekunden
1668	2016-06-08 15:42:50	Alarm	Grundmodul	Aktiv
1667	2016-06-08 15:42:50	Klappe beginnt zu schließen	Grundmodul, Klemme 4	
1666	2016-06-08 15:41:57	Alarm	Grundmodul	Inaktiv
1665	2016-06-08 15:41:55	Eingang Lüftungsanlage		Aktiv
1664	2016-06-08 15:41:51	Eingang Lüftungsanlage		Inaktiv
1663	2016-06-08 15:41:51	Eingang Lüftungsanlage		Aktiv
1662	2016-06-08 15:41:51	Eingang Lüftungsanlage		Inaktiv
1661	2016-06-08 15:41:49	Eingang Lüftungsanlage		Aktiv
1660	2016-06-08 15:41:43	Eingang Lüftungsanlage		Inaktiv
1659	2016-06-08 15:41:42	Eingang Lüftungsanlage		Aktiv

Figure 3: Log View

SETTINGS

After connection to the device has been established, the settings interface provides an overview of the current configuration. A change in values is not possible until the correct enabling code has been entered bottom right and confirmed by clicking the "Enabling Code" button. However, the menu behind the "Tools" button is always accessible. Here the current configuration values can be saved

and loaded. Moreover, functions for restarting the device and for setting the current time are available.

The available configuration parameters have been grouped by validity. The first category "Device settings" includes module-independent time and logic configurations, while the remaining categories specify the intended purpose of the respective module terminals. For each terminal, a comment (up to 64 characters) can additionally be included. It has no effect on the hardware function and is for documentation purposes only.

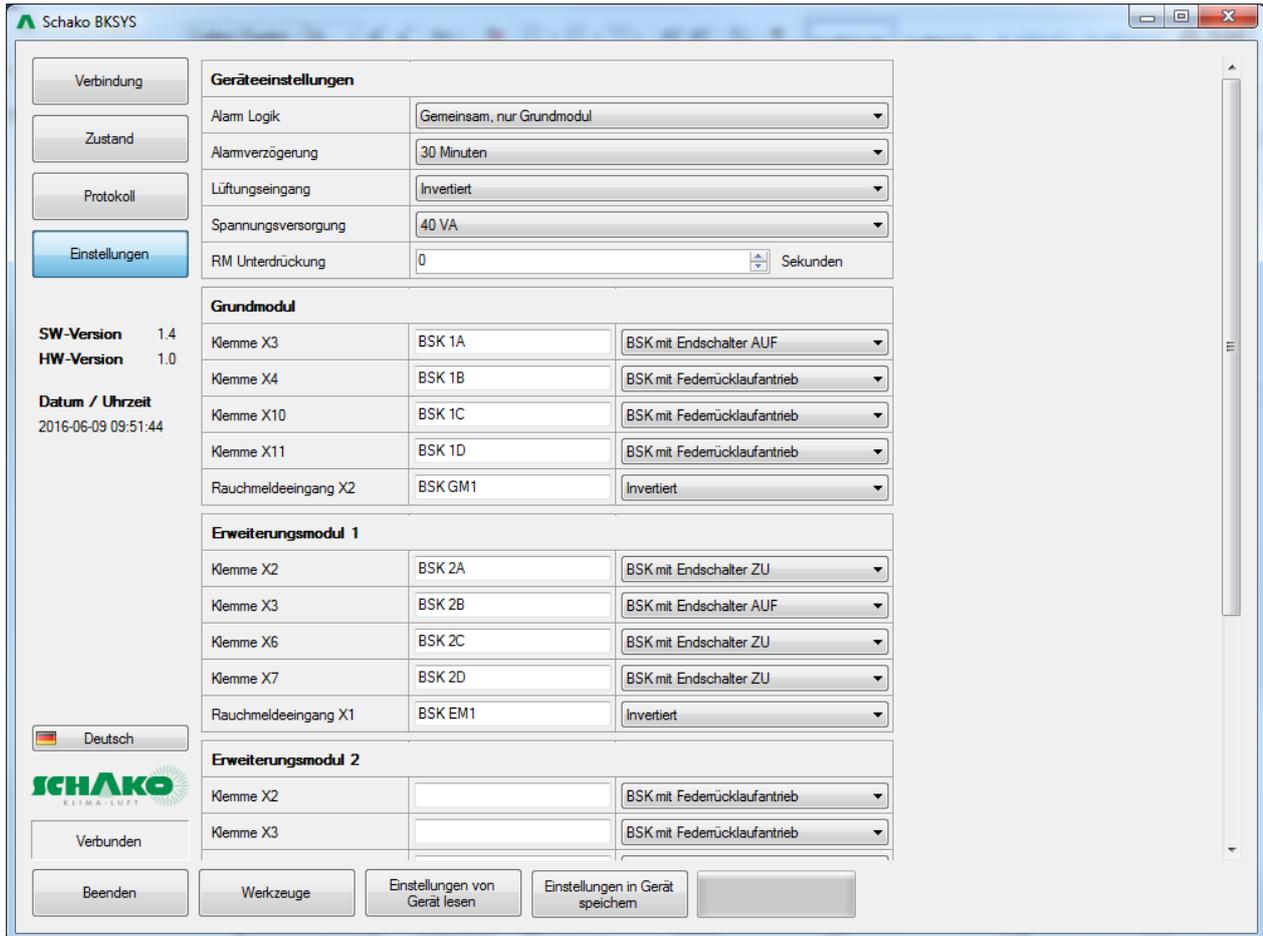


Figure 4: Settings View