

Configuration tool FlexES

This configuration tool serves for the offline planning and following documentation of a fire alarm system with the fire alarm control panel (FACP) FlexES control.

Considering the emergency-power times, the wire cross section, the quantity and type of the analog loops (including detectors, alarm units, etc.) as well as the power supply, the software enables you to calculate the battery capacity, the number of power supply units and the total thermal output. The specified thermal output conduces to the calculation base, e.g. to plan air condition and the ventilation technology.

You could choose German or English language on the first page. In the first step it is necessary to name the common project data, so you could identify your calculations later.

The screenshot shows the first step of the configuration tool. The title bar at the top right indicates the language is set to 'deutsch | english'. The main header reads 'Configurationtool FlexES' and 'FlexES control'. The section title is 'PROJECTDATA: COMMON PROJECTDATA'. The form contains the following fields:

- Surname, Name: [text input]
- Objectname: [text input]
- Street: [text input]
- ZIP City: [text input]
- Projectname: [text input]
- Comments: [text area]

At the bottom, there is a navigation bar with five numbered steps (1-5), where step 1 is currently selected. A 'NEXT >>' button is located at the bottom right.

In the second step the essential emergency-power times in standby and alarm mode are requested – the specifications for Germany are here preset. In addition the wire cross section is queried.

The screenshot shows the second step of the configuration tool. The title bar at the top right indicates the language is set to 'deutsch | english'. The main header reads 'Configurationtool FlexES' and 'FlexES control'. The section title is 'CONFIGURATION: EMERGENCY-POWER TIMES'. The form contains the following fields:

- Required emergency-power time (standby): [input with value 30]
- Required emergency-power time (alarm): [input with value 0.5]

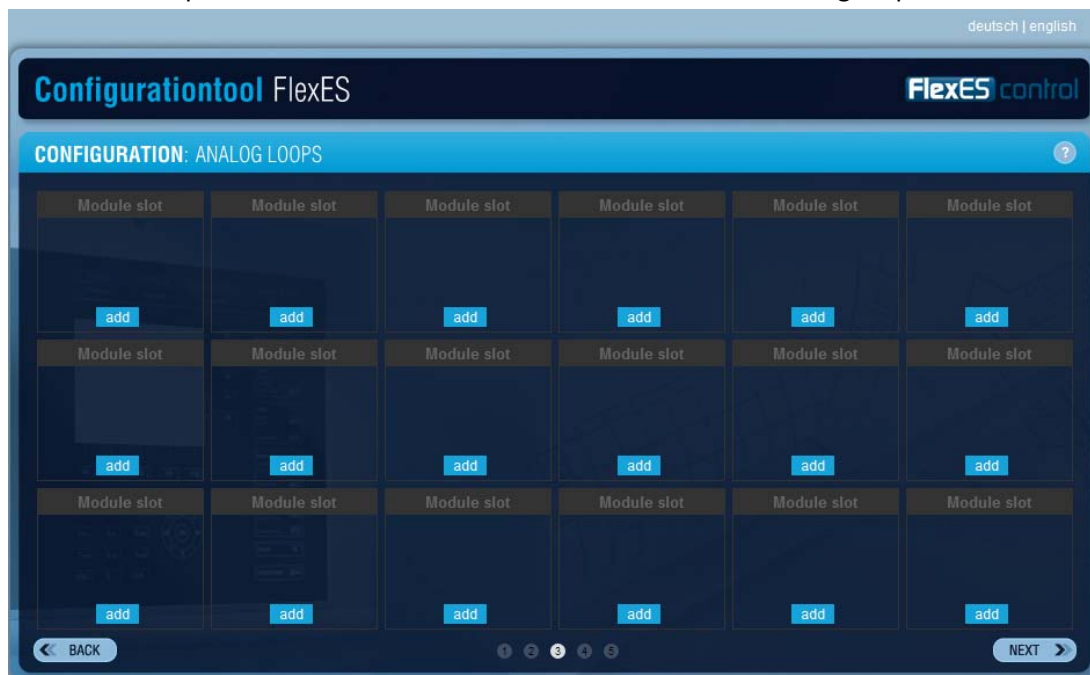
Below this, the section title changes to 'CONFIGURATION: WIRE CROSS SECTION'. The form contains the following field:

- Wire cross section: [dropdown menu showing '0.5mm² | Ø0.80mm | AWG20']

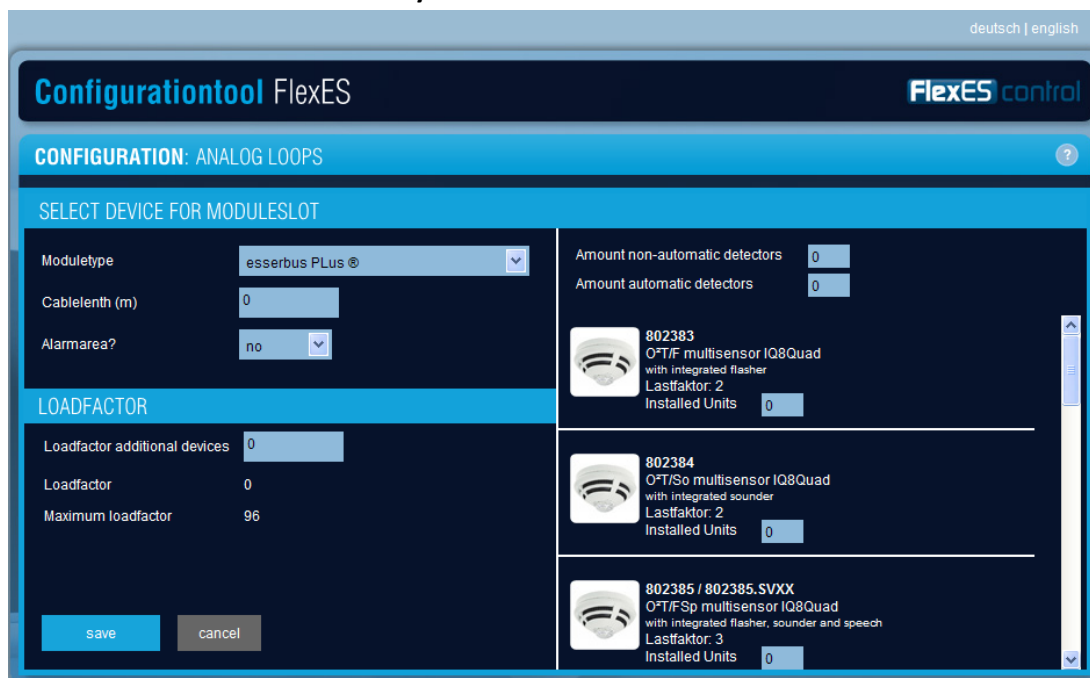
At the bottom, there is a navigation bar with five numbered steps (1-5), where step 2 is currently selected. A '<< BACK' button is located at the bottom left, and a 'NEXT >>' button is located at the bottom right.

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In the third step the individual module slots are attached to the analog loops.



After a module slot is added, you have to choose which device should use this module slot.
Redundant control modules always use two module slots!



There is additional input required for esserbus-Plus (powered loop) devices to define the total load factor, which is based on the length of the analog loops, the amount of automatic detectors and manual call points as well as the type of the mounted units.

The load factor is checked automatically in dependency to the length of the analog loops and is correctable, if necessary.

The indication, if the analog loop should be declared as alarm area, refers to the calculation of the necessary backup time.

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Regarding to the German standard VDE 0833-2, here you should only mark those loops with „YES“, which should allocate to the alarm area with the highest current consumption. If all alarm units on the esserbus-PLus (powered loop) loops are activated in hazardous situations, you have to mark all these loops with “YES”.

In the fourth step it is possible to specify external devices and respectively their wattage. The current consumption of FlexES control is shown in standby and alarm mode and is correctable, e.g. if the FACP should be used without display and operating unit.

deutsch | english

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FlexES control

POWER SUPPLY EXTERNAL DEVICES

External devices connected ☒

Consumption on Ubext (standby) 0 mA

Consumption on Ubext (alarm) 0 mA

STANDBY-/ ALARM CURRENT

Standby current 24VDC/ 400 mA

Alarm current 24VDC/ 400 mA

The given values relate to the data edited and represents a mathematical estimation. Before commissioning the system it is highly recommended to edit the actual measured current load and to modify the required battery capacity or number of power supply units.

BACK NEXT

In the fifth step the input data is combined and the necessary battery capacity, the necessary number of power supply units and the total thermal output is displayed. Also it is possible to print or save (as PDF document) the total calculation as well as the loop plan.

deutsch | english

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FlexES control

OVERVIEW: RESULTS

CURRENT	TIME
Standby current: 300 mA	Required emergency-power time (standby): 30.0 h
Standby current Ubext: 0 mA	Required emergency-power time (alarm): 0.5 h
Alarm current: 400 mA	Total backup time: 30.0 h
Alarm current Ubext: 0 mA	

POWER SUPPLY BATTERY CAPACITY	HEAT DEVELOPMENT
Required battery capacity: 11.5 Ah	Total thermal output: 25 W
Required number of power supply units: 1 Unit(s)	

PRINT LINEPLAN PRINT CONFIGURATION

BACK