



Sterownik FSG Settings Guide

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List of terms used in Sterownik FSG Settings Guide

Sterownik FSG program — micro code built-in device by manufacturer.

Auto mode of channel working — mode in which device sets values of channel (opens and closes dumpers) according to its internal program. Channel switches to manual mode when values are set by operator while performing other commands using a card or script, macros, etc.

Service mode of device — special mode of working which allows to set values of some parameters directly by user and makes special commands available which are not available in normal mode.

Introduction into Sterownik FSG Settings Guide

On the page:

- [Purpose of the document](#)
- [General information about the Sterownik FSG integration module](#)

Purpose of the document

The *Sterownik FSG integration module settings guide* provides comprehensive setup and operational guidance for *Sterownik FSG* module operators.

This Guide presents the following materials:

1. general information about the *Sterownik FSG* module;
2. *Sterownik FSG* module settings;
3. working with the *Sterownik FSG* module.

General information about the Sterownik FSG integration module

Sterownik FSG integration module is designed for connecting IPID Sterownik FSG controller. *Sterownik FSG* allows to perform data exchange, receive events from this controller and perform rules for connected devices.

Sterownik FSG integration module supports the following functions:

1. open/close of fire dumper;
2. set the angle of fire dumper;
3. receive the current state of connected devices;
4. receive states of fire dumper (open, close, damage);
5. control program which control all fire dumpers in case of damage;
6. show temperatures inside the ventilation tunnels;
7. control smoke exhaust fan.

Configuration of the Sterownik FSG integration module

Configuration procedure for the Sterownik FSG integration module

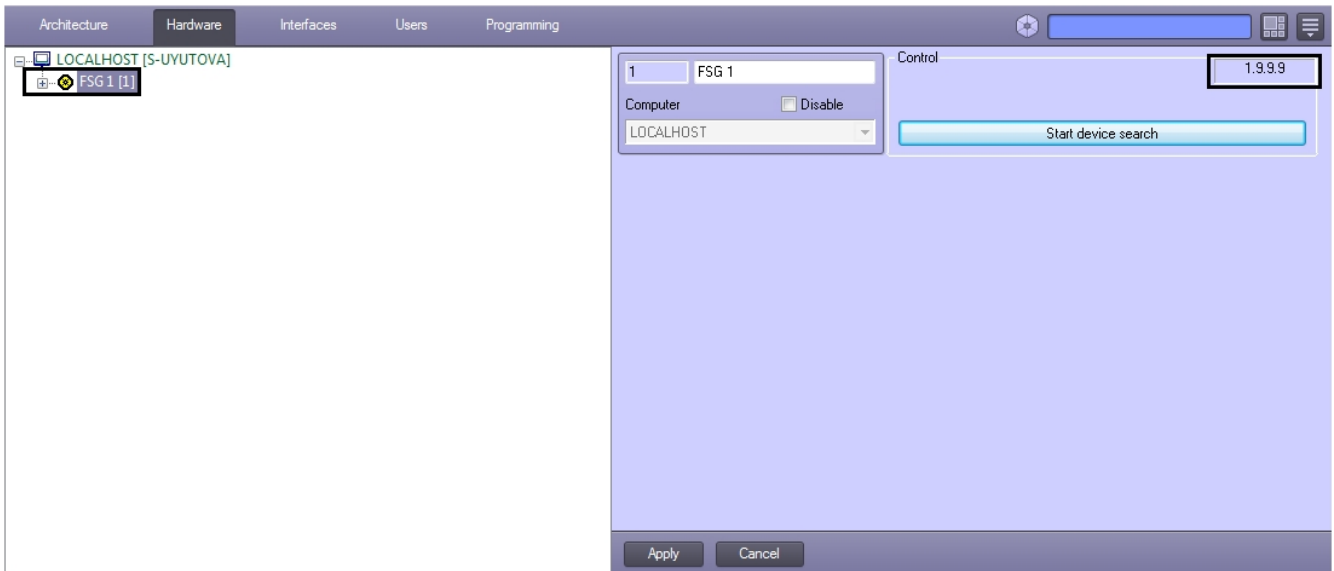
The *Sterownik FSG* integration module is configured as follows:

1. Activate the *Sterownik FSG* integration module.
2. Search for *Sterownik FSG* devices.
3. Configure rules for *Sterownik FSG* channels.

Also device can be switched to service mode optionally.

Activate the Sterownik FSG integration module

To activate the *Sterownik FSG* integration module create the **FSG** object on the basis of **Computer** object on the **Hardware** tab of the **System settings** dialog box.

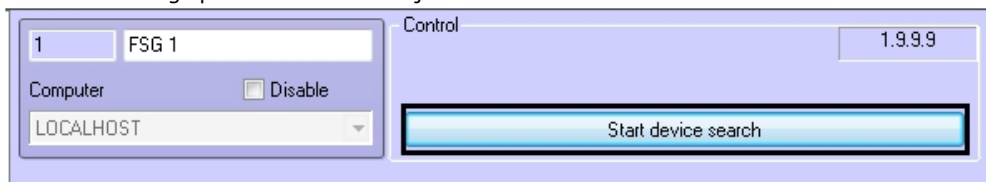


Version of the *Sterownik FSG* integration module is displayed in the right top corner.

Search for Sterownik FSG devices

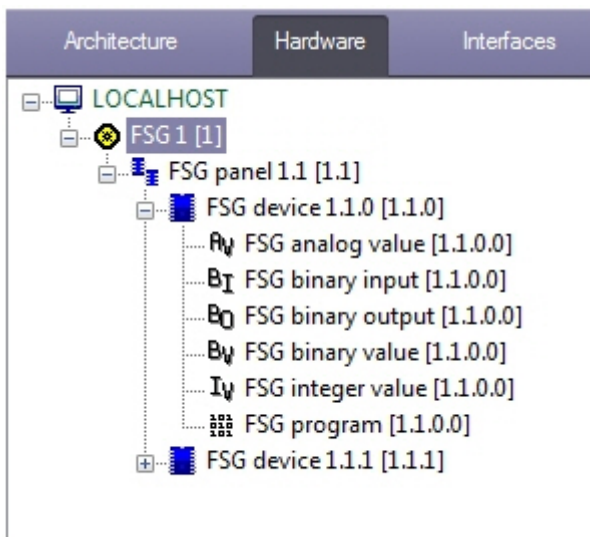
To search *Sterownik FSG* devices in local network, do the following:

1. Go to the settings panel of the **FSG** object.



2. Click the **Start device search** button.

Search of *Sterownik FSG* devices will be performed and corresponding objects will be created in the object tree as a result.



Note.

If there are several network connections on the PC where search for devices is performed it is recommended to disable all connections except that connection which provides connection to local network with *Sterownik FSG* devices.

It is possible to receive the following information on the settings panel of created object:

1. Parameters of connection IP panel of *Sterownik FSG* device are displayed in the settings panel of the **FSG** object.

2. Information about found device is displayed in the settings panel of the **FSG device** object.

3. On the settings panel of objects corresponding to channels of the *Sterownik FSG* devices there is the **Out of service** checkbox which is not available for editing and has informing manner. The checkbox is set if channel of device is not in use. In such case value from channel is not read.

4. States of the corresponding object are displayed on the settings panels of the **FSG binary input** object.

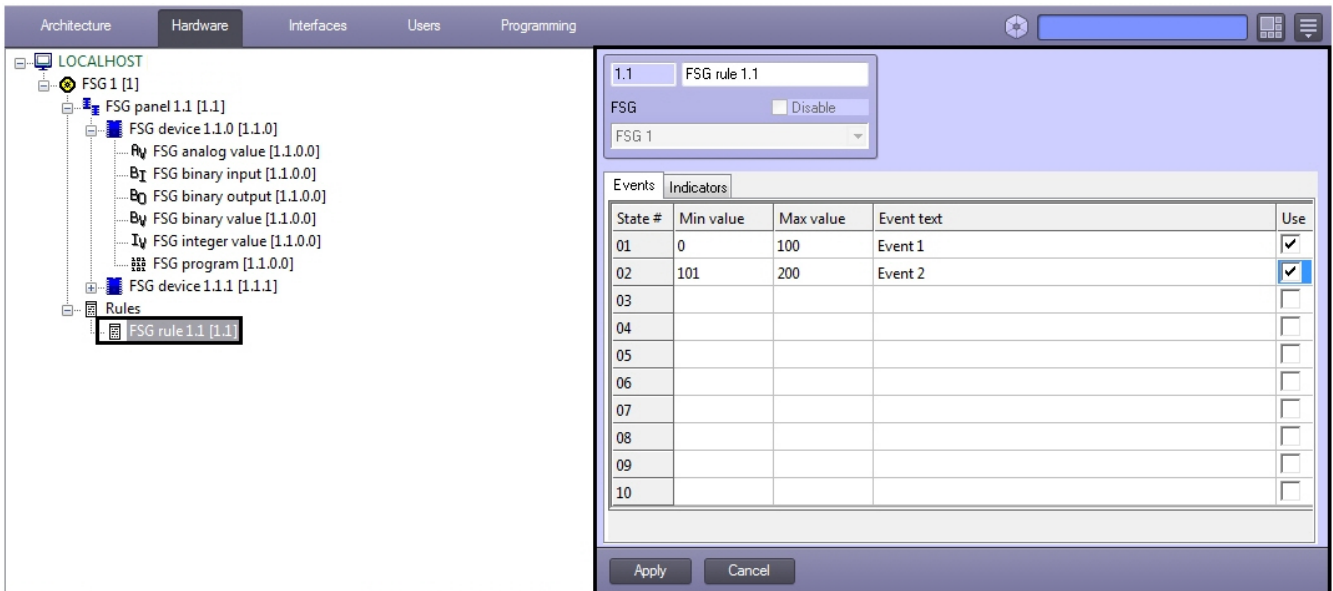
| States | Value | State |
|----------------------|---------------------|-------|
| Value below 500 Ohm | 1. Active | ▼ |
| Value 500-1500 Ohm | 2. Inactive & Fault | ▼ |
| Value 1500-2500 Ohm | 3. Active & Fault | ▼ |
| Value 2500-3500 Ohm | 4. Inactive & Alarm | ▼ |
| Value above 3500 Ohm | 5. Active & Alarm | ▼ |

Configure rules for Sterownik FSG channels

The following types of rules for *Sterownik FSG* devices are available:

1. State transition in the system while taking element on a value from the specified range.
2. Change of state indicator taking element on a value from the specified range.

Configuring of rules is performed on the settings panel of the **FSG rule** object which is created on the basis of the **FSG** object.



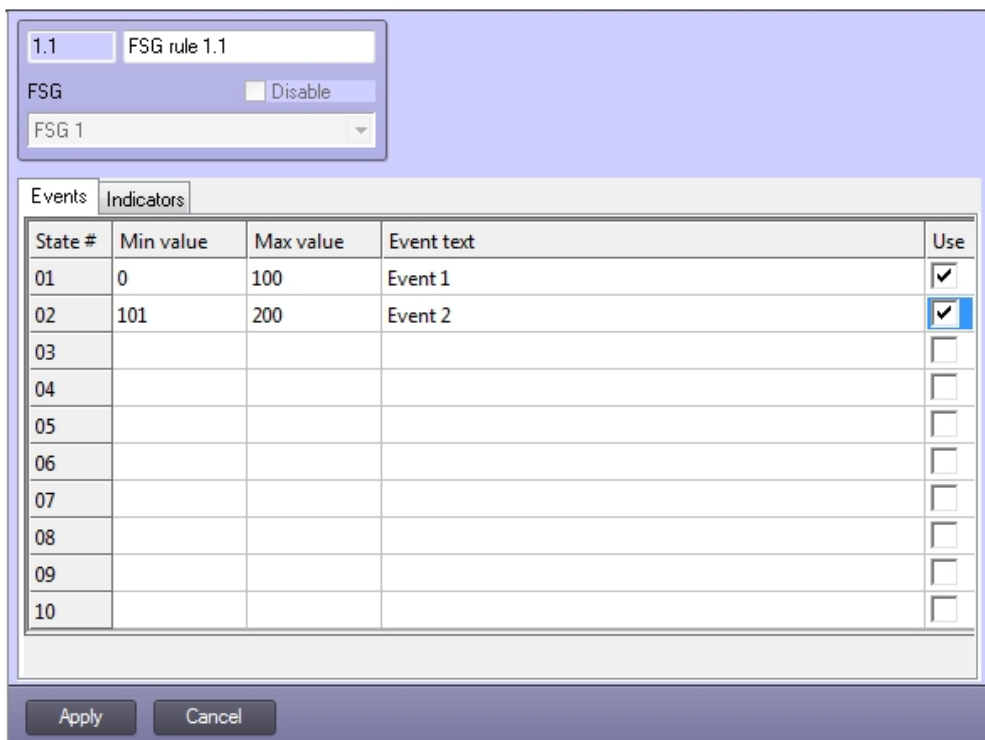
This object is a group of rules in which rules of any types can be included. Only one group of rules can be assigned to each parameter and *Sterownik FSG* channel.

Configure rule of state transitions of Sterownik FSG channels

Rules of state transition allows to generate events in case of value of parameter or channel will come into the specified interval.

To configure this rule it is required to set the following parameters in the **Events** tab on the settings panel of the **FSG rule** object.

1. In the **Min value** column enter the begin of interval.
2. In the **Max value** column enter the end of interval.
3. Set the **Use** checkbox to activate interval.
4. In the **Event text** column enter message which will be received while taking element on a value from the specified range.



Attention!

Parameter will be in several states (multistate) if value of parameter or channel comes into several intervals.

Configure rule of change state indicator of Sterownik FSG channels

Rule of change the indicator state allows to know how to change indicator of object on the map while coming value of parameter in the specified interval.

Configuring of this rule is performed on the **Indicators** tab on the settings panel of the **FSG rule** object. Description of parameters is presented in the following table. It is possible to specify not more than 10 states of indicator.

| Parameter | Description of parameter |
|-----------------------|---|
| Rule # | Number of rule |
| Min value , Max value | Range of element values for rule |
| Min scale, Max scale | Range of values which indicator will take according to the rule |
| Use | Activation of interval |
| Red, Green, Blue | Set color of indicator by RGB model |

Click the **Apply** button to save changes.

Indicator and its value are displayed in the map.

| Rule # | Min value | Max value | Min scale | Max scale | Red | Green | Blue | Use |
|--------|-----------|-----------|-----------|-----------|-----|-------|------|-------------------------------------|
| 01 | 0 | 1000 | 0 | 100 | 0 | 0 | 255 | <input checked="" type="checkbox"/> |
| 02 | 0 | 1000 | 0 | 100 | 0 | 0 | 255 | <input type="checkbox"/> |
| 03 | 0 | 1000 | 0 | 100 | 0 | 0 | 255 | <input type="checkbox"/> |
| 04 | 0 | 1000 | 0 | 100 | 0 | 0 | 255 | <input type="checkbox"/> |
| 05 | 0 | 1000 | 0 | 100 | 0 | 0 | 255 | <input type="checkbox"/> |
| 06 | 0 | 1000 | 0 | 100 | 0 | 0 | 255 | <input type="checkbox"/> |
| 07 | 0 | 1000 | 0 | 100 | 0 | 0 | 255 | <input type="checkbox"/> |
| 08 | 0 | 1000 | 0 | 100 | 0 | 0 | 255 | <input type="checkbox"/> |
| 09 | 0 | 1000 | 0 | 100 | 0 | 0 | 255 | <input type="checkbox"/> |
| 10 | 0 | 1000 | 0 | 100 | 0 | 0 | 255 | <input type="checkbox"/> |

Assign rule to Sterownik FSG channel

The rule can be assigned to channels of the **FSG analog value**, **FSG binary value** and **FSG integer value** types. To assign rule to channels or parameter, do the following:

1. Go to the settings panel of the corresponding channel or parameter.

The screenshot shows a configuration window for an FSG device. On the left, there are fields for 'FSG analog value' (1.1.0.0) and 'FSG device' (FSG device 1.1.0) with a 'Disable' checkbox. On the right, there is a 'Device id' field (0) and an 'Out of service' checkbox. A 'Rule' dropdown menu is highlighted with a red box and labeled '1'. Below it is an 'Info' section with a 'Device name' field. At the bottom, the 'Apply' button is highlighted with a red box and labeled '2', next to a 'Cancel' button.

2. Select the required rule - **FSG rule** object from the **Rule** drop-down list (1).
3. Click **Apply** button to save changes (2).

Assigning rule to channels or parameter is completed.

Switch the Sterownik FSG device to service mode

Service mode of device is a special mode of working which allows user to set values of some parameters and make available some commands.

To switch device to service mode, do the following:

1. Go to the settings panel of the **FSG device** object.

The screenshot shows the settings panel for an FSG device. It includes a 'Settings' section with an 'Instance' field (0). Below that is a 'Device info' section with fields for 'Model name', 'Vendor name', 'Firmware', 'Device name', 'Vendor id' (123), and 'Software'. The 'Service mode' section contains a 'Password' field highlighted with a red box and labeled '1', and a 'Set service mode' button highlighted with a red box and labeled '2'. At the bottom, there are 'Apply' and 'Cancel' buttons.

2. In the **Password** field enter password for switching device to service mode (1).

Note.
Password is specified in documentation of device manufacturer.

3. Click the **Set service mode** button (2).

As a result device will be switched to the service mode.

Working with Sterownik FSG integration module

General information on working with Sterownik FSG integration module

Events of *Sterownik FSG* devices are sent to the *Events protocol*.

Icon and indicator of state and value of parameter or FSG channel can be displayed in the map.

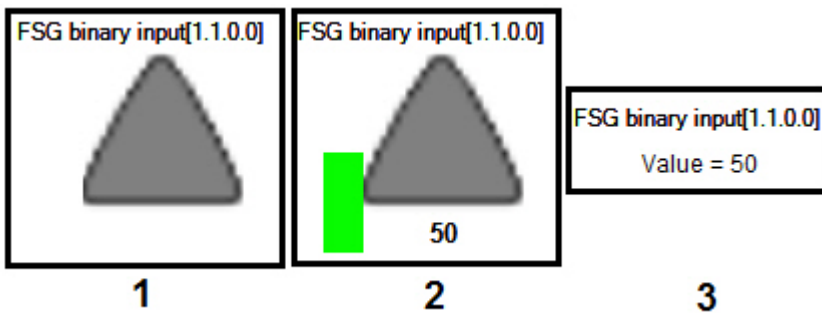
Information about configuring the **Events protocol** and **Map** interface objects is given in details in [Intellect software package. Administrator's Guide](#) document.

Working with **Events protocol** and **Map** interface objects is given in details in [Intellect software package. Operator's Guide](#) document.

It is possible to configure reactions on some values of elements with the help of scripts and macros. Working with scripts and macros is given in details in [Intellect software package. Programming Guide](#) and [Intellect software package. Programming Guide \(Jscript\)](#) documents.

It is possible to add *Sterownik FSG* channels to the map in three views (perhaps simultaneously):

1. As sign of state (**1**).
2. As sign of state and indicator (**2**).
3. In the text view (value of element, **3**).

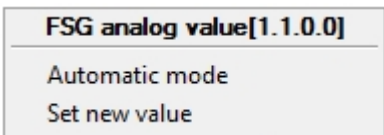


Note. View of object displaying on the map is selected while the object adding (see [Intellect software package. Administrator's Guide](#)).

Note. Current versions of all specified documents are stored in the [AxxonSoft documentation repository](#).

Control analog and integer Sterownik FSG value

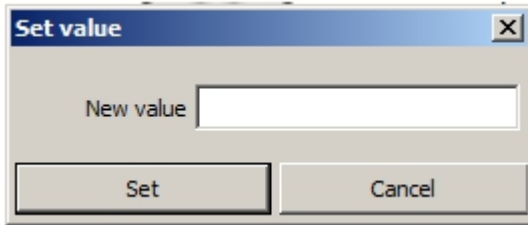
Control analog and integer *Sterownik FSG* value is performed from the functional menu of the corresponding object on the map.



The **Automatic mode** is designed for switching channel to the auto mode of working. In this mode device sets values by itself (opens and closes dumper) according to its internal program. In manual mode operator sets values using the **Set new value** command. Values specified in manual mode are more high-priority.

To change values of channel (present value) select the **Set new value** item in the context menu.

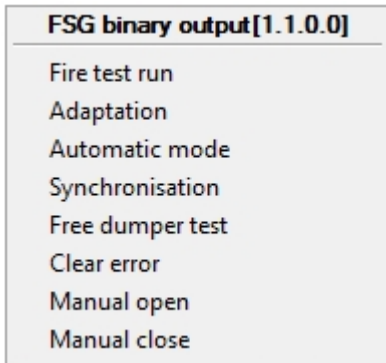
In the opened **Set value** window enter new value and click **Set**.



As a result the new value will be assigned to channel and indicator will take a value and color according to the rule (see the [Configure rules for Sterownik FSG channels](#) section).

Control FSG binary output

Control *Sterownik FSG* binary output is performed using the functional menu of the **FSG binary output** object.

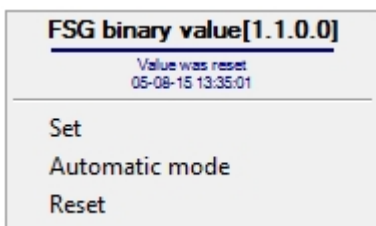


Available commands in the context menu are described in the table.

| Command | Description |
|------------------|--|
| Fire test run | Test commands. Close dumper shortly simulating fire and then slowly restore the previous state of dumper. |
| Free dumper test | |
| Adaptation | Adaptation. |
| Automatic mode | Switch channel to auto mode. |
| Synchronization | Synchronization. |
| Clear error | Reset of error connected with integrity damage of pressure sensor. |
| | <div style="border: 1px solid gray; padding: 5px;"> <p>Note. Other types of errors are reset automatically while error correction.</p> </div> |
| Manual open | Open dumper. |
| Manual close | Close dumper. |

Control FSG binary value

Control *Sterownik FSG* binary value is performed using the functional menu of the **FSG binary value** object.



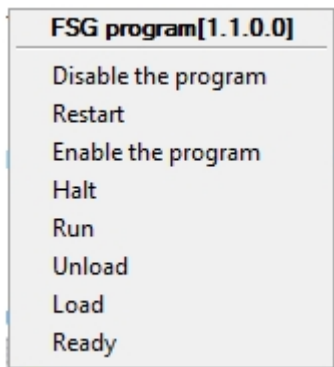
Available commands in the context menu are described in the table.

| Command | Description |
|---------|-------------|
| | |

| | |
|----------------|--------------------------|
| Set | Set value 1 to channel |
| Automatic mode | Set auto mode to channel |
| Reset | Set value 0 to channel |

Control FSG program

Control *Sterownik FSG* program is performed using the functional menu of the **FSG binary output** object.



Available commands in the context menu are described in the table.

| Command | Description |
|---------------------|--|
| Disable the program | Disable program |
| Restart | Restart program |
| Enable the program | Enable program |
| Halt | Interrupt program |
| Run | Launch program |
| Unload | Unload program |
| Load | Load program |
| Ready | Switch over program to the ready state |

Control Sterownik FSG device

Sterownik FSG allows to control *Sterownik FSG* device from the map using functional menu of the **FSG device** object. Functional menu of this object allows to switch over device to service mode using the Set service mode command (see also [Switch the Sterownik FSG device to service mode](#) section).

