

AxxonSoft

ACFA Intellect

Configuration and Operation Manual for the

UniPos 5100–5200

integration module

Version 1.3

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1 List of terms

Intellect Server is a computer with installed **Server** configuration of *Intellect* software package.

UniPos configuration is a set of access parameters and *UniPos* equipment.

FIRE CONDITION STAGE I is a stage 1 when an automatic fire detectors have been activated and the time for fire condition stage 1 (STAGE 1–2 TRANSITION TIME) has not expired yet.

FIRE CONDITION STAGE II is a stage 2 that is activated when the stage 1-2 transition time is expired.

TIME CORRECTION is a configuration of built-in clock's accuracy movement in case of astronomical time exceeding or lag.

Recognition time is the time that is added to the stage 1-2 transition time period.

OUTPUT is an address, controllable or relay output that is programmed by the user and is used in FIRE mode (FIRE CONDITION STAGE I and FIRE CONDITION STAGE II) in the selected zone.

RELAY OUTPUT – relay non-potential outputs, provided for external execution devices control.

FIRE ALARM LINE (hereinafter - LINE) is a set of address sensors, insulators, address adaptors and conventional sensors, physically connected by the means of two-wire connection.

2 Introduction

2.1 Purpose of document

Configuration and operation manual for the Unipos ACFA 5100-5200 integration module is an informational reference aid intended for use by configuration specialists and operators of the *Unipos ACFA 5100-5200* module. This module is a part of the fire and security alarm subsystem implemented with the *ACFA Intellect software package*.

This Guide contains the following materials:

1. general information on the *Unipos ACFA 5100-5200* integration module;
2. configuration of the *Unipos ACFA 5100-5200* integration module;
3. operation of the *Unipos ACFA 5100-5200* integration module.

2.2 General information about UniPos ACFA 5100-5200 integration module

UniPos ACFA 5100-5200 integration module works as a part of FSA system implemented with the *ACFA Intellect software package*. Its aim is to control *UniPos ACFA 5100-5200* system.

Note. For more information on the Unipos ACFA 5100-5200 system, refer to the official documentation on the Unipos (UniPos vendor).

1. configure Unipos ACFA 5100-5200 (UniPos vendor, P Bulgaria);
2. provide for interaction between Unipos ACFA 5100-5200 and *ACFA Intellect* (monitoring, control).

Note. For more information on the Unipos ACFA 5100-5200 system, refer to the official documentation on this system.

The UniPos ACFA 5100-5200 integration module can be configured once the following steps are completed:

1. Install *UniPos ACFA 5100-5200* hardware at the facility;
2. Create an object tree in *ACFA Intellect* software package (see *Construction of the UniPos ACFA 5100-5200 object tree*).

3 Configuration of UniPos ACFA 5100-5200 integration module

3.1 Procedure for configuring of UniPos ACFA 5100-5200 integration module

The *UniPos ACFA 5100-5200* integration module in *ACFA Intellect* software package is configured through the following steps:

1. Configuration of connection to *UniPos ACFA 5100-5200*;
2. Construction of *UniPos ACFA 5100-5200* object tree;
3. Configuration of *FS5100 panel*;
4. Configuration of *FS5200 panel*.

3.2 Configuration of connection to UniPos ACFA 5100-5200

In *ACFA Intellect* software package the connection to *UniPos ACFA 5100-5200* is carried out on the setting panel of the “**UniPos**” **ACFA 5100-5200** object. This object is created on the basis of the **Computer** object on the **Hardware** tab of the **System settings** dialog box (Figure 3.2—1).

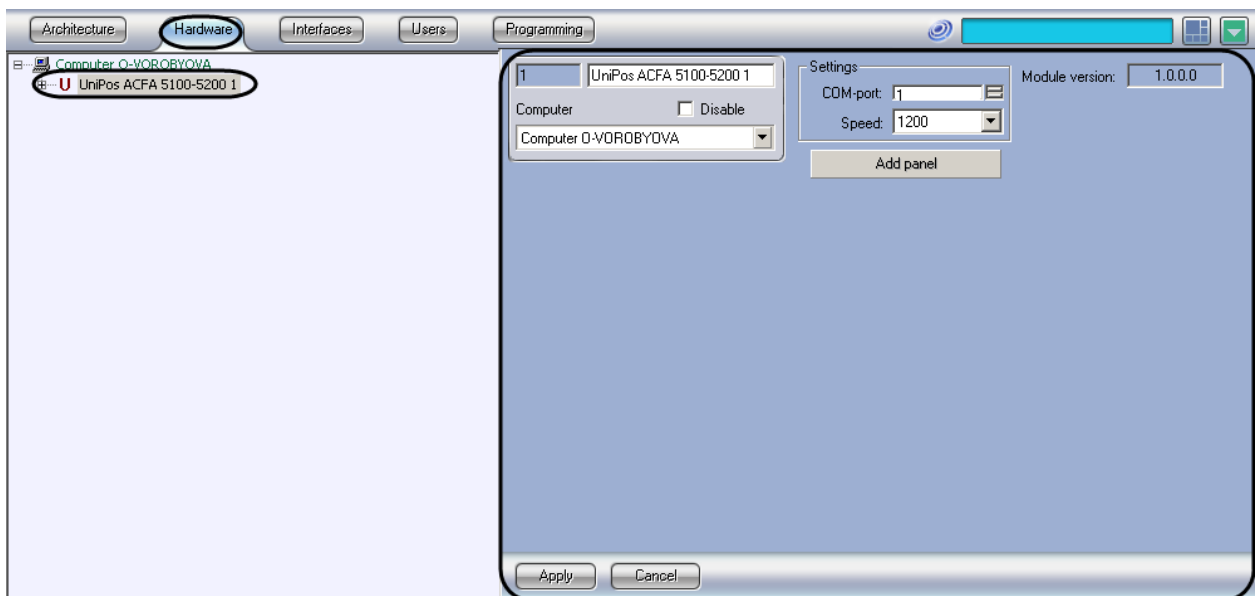


Figure 3.2—1 The “UniPos” ACFA 5100-5200 object

To configure the connection to *UniPos ACFA 5100-5200* do the following:

1. Go to the setting panel of the “**UniPos**” **ACFA 5100-5200** object (Figure 3.2—2).

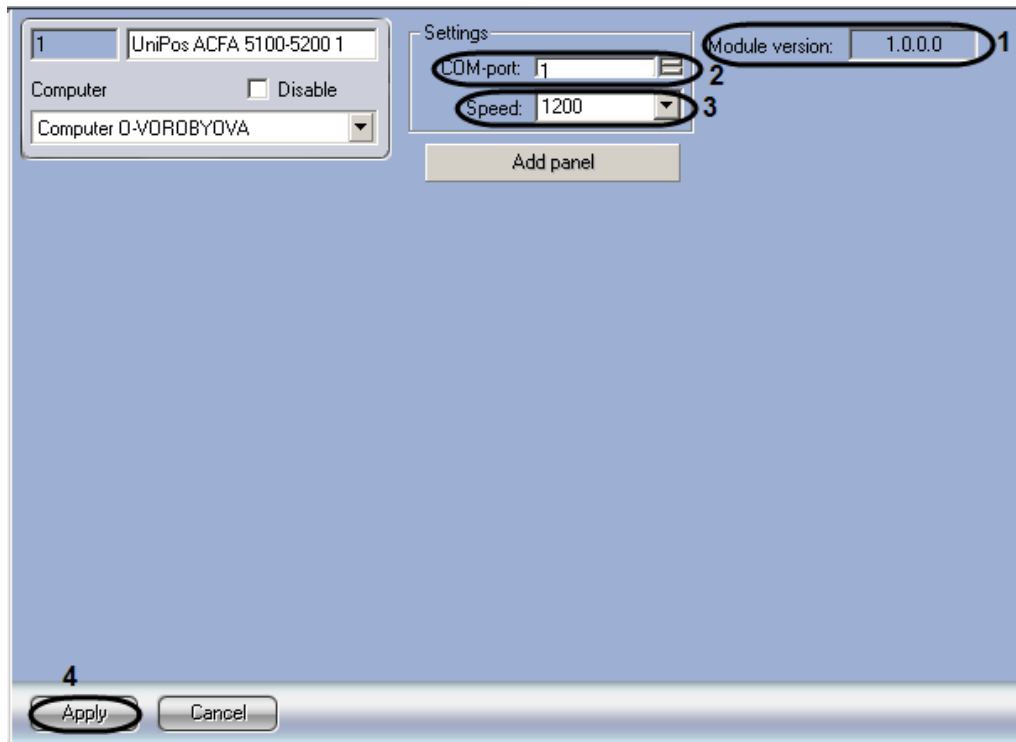


Figure 3.2—2 Setting panel of the “UniPos” ACFA 5100-5200” object

Note. Current version of the UniPos ACFA 5100-5200 integration module is displayed in the **Module version** field (Figure 3.2—2, 1).

2. With the help of **up-down** buttons in the **COM-port** field set the number of COM port through which there will be the connection with *ACFA Intellect* Server (Figure 3.2—2, 2).
3. From the **Speed** dropdown list select the speed of data exchange through the COM port (Figure 3.2—2, 3).
4. To save changes click **Apply** (Figure 3.2—2, 4).

Configuration of connection to *UniPos ACFA 5100-5200* is completed.

3.3 Construction of the UniPos ACFA 5100-5200 object tree

The Construction of the *UniPos ACFA 5100-5200* object tree is carried out through the following steps:

1. Go to the setting panel of the “UniPos” ACFA 5100-5200 object (Figure 3.3—1).

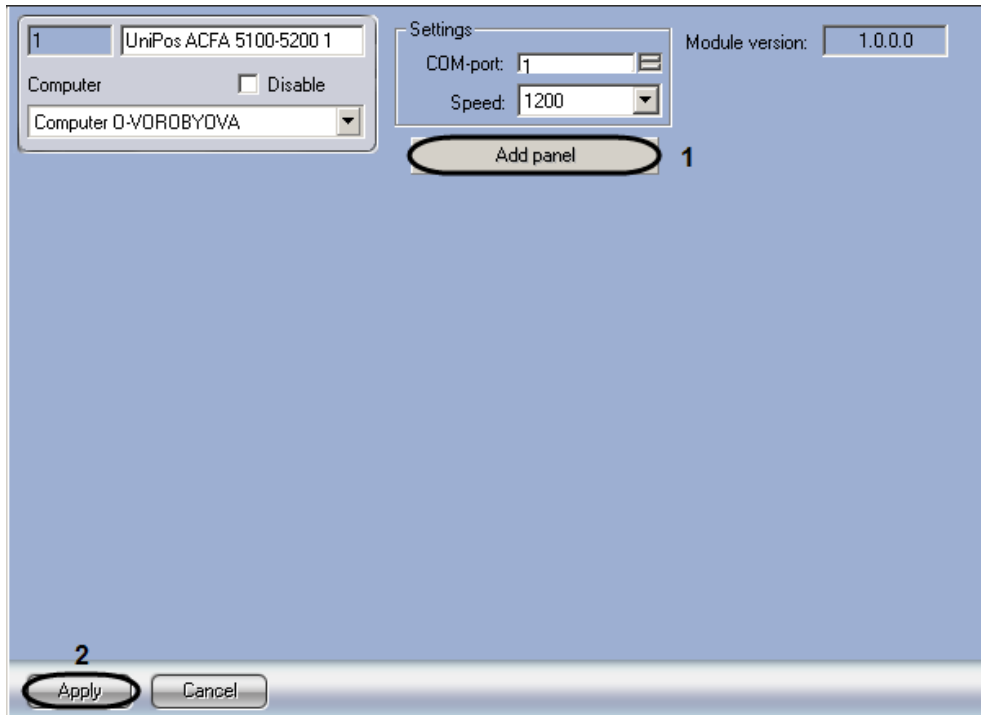


Figure 3.3—1 Panel adding

2. Click **Add panel** (Figure 3.3—1, 1).

As a result the dialog box of panel selecting is displayed (Figure 3.3—2).

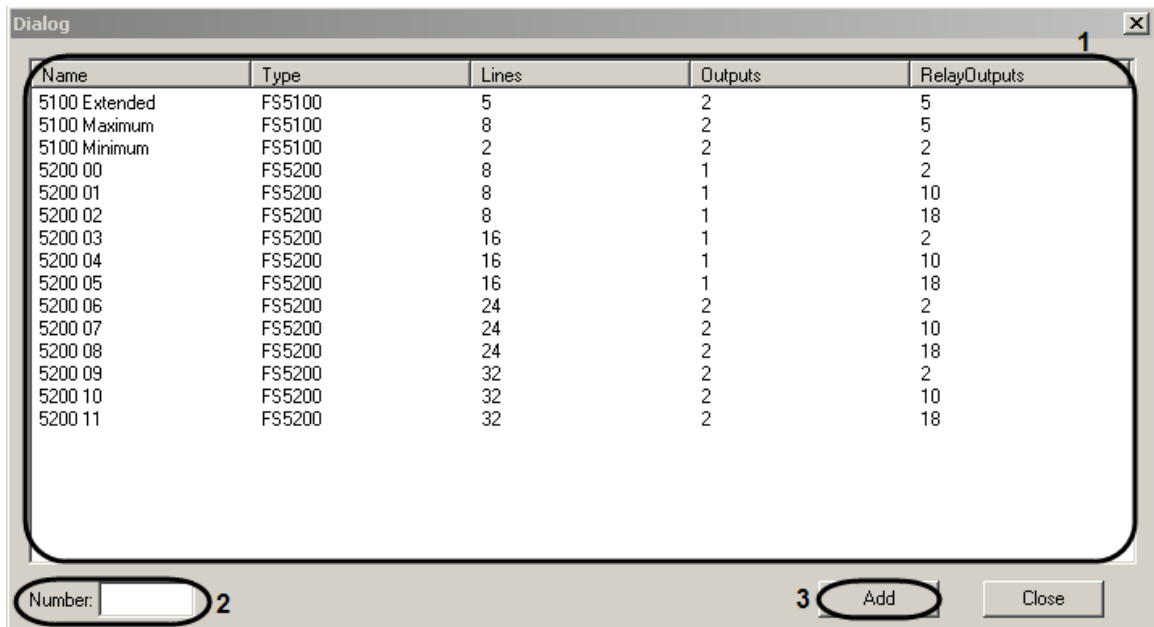


Figure 3.3—2 The Dialog box

Note. Types of panels with features are displayed in the dialog box (Figure 3.3—2, Table 3.3-1).

Table 3.3-1 Table of panels and their features

Column	Description
Name	Name of panel
Type	Type of panel (model)
Lines	Number of lines
Outputs	Number of outputs
RelayOutputs	Number of relay outputs

3. To add the panel do the following:
 1. In the **Number** field set panel id (Figure 3.3—2, **2**).
 2. Select the type of panel in the **Dialog** box (Figure 3.3—2, **1**).
 3. Click **Add** in order to add panel. At the same time the *UniPos ACFA 5100-5200* object tree is loaded from the vendor’s software (Figure 3.3—2, **3**).

The *UniPos ACFA 5100-5200* object tree elements corresponding to the selected panel type are loaded from the vendor’s software.

4. To save changes click **Apply** (Figure 3.3—1, **2**).

Construction of the *UniPos ACFA 5100-5200* object tree is completed.

3.4 Configuration of FS5100 panel

3.4.1 Procedure for configuring of FS5100 panel

The procedure for configuring of FS5100 panel in the *ACFA Intellect* software package is the following:

1. configuration of *FS5100* panel;
2. configuration of *FS5100* panel outputs;
3. configuration of *FS5100* panel lines.

3.4.2 Configuration of FS5100 panel

The configuration of *FS5100* panel is carried out on the setting panel of the **FS5100 panel** object. This object is created on the basis of the **UniPos ACFA 5100-5200** object on the **Hardware** tab of the **System settings** dialog box while constructing the **UniPos ACFA 5100-5200** object tree (Figure 3.4—1) (see *Construction of the UniPos ACFA 5100-5200 object tree*).

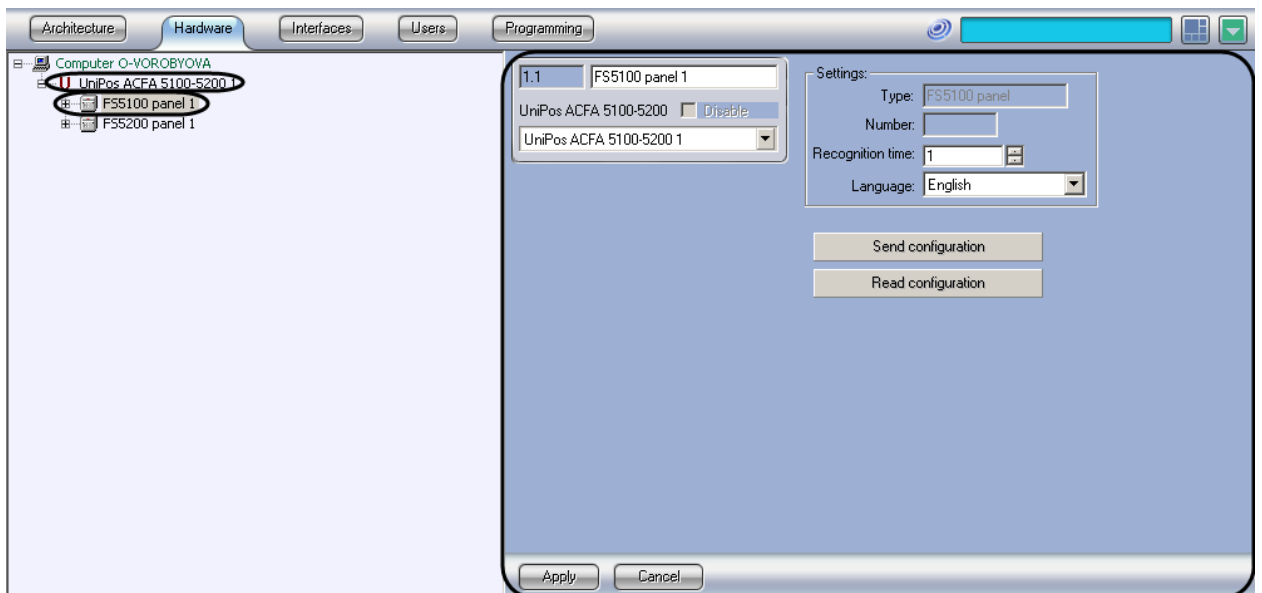


Figure 3.4—1 The “FS5100 panel” object

Configuration of *FS5100* panel is carried out the following way:

1. Go to the setting panel of the **FS5100 panel** object (Figure 3.4—2).

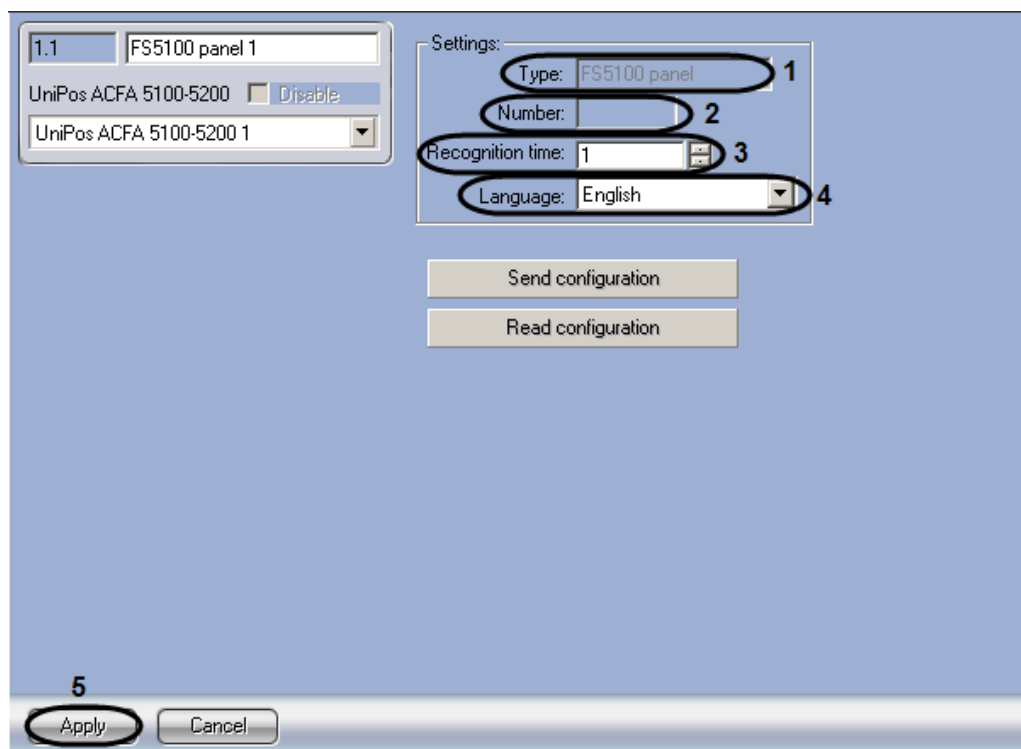


Figure 3.4—2 Setting panel of the FS5100 panel object

Note 1. In the **Type** field the name of FS5100 panel is displayed (Figure 3.4—2, 1).

Note 2. In the **Number** field the id of FS5100 panel is displayed (Figure 3.4—2, 2).

2. With the help of **up-down** buttons in the **Recognition time** field set the transition time from FIRE CONDITION STAGE I to FIRE CONDITION STAGE II (in seconds) (Figure 3.4—2, 3).

3. Select the language of the FS5100 panel from the **Language** drop-down list (Figure 3.4—2, 4).
4. To save changes click **Apply** (Figure 3.4—2, 5).

Configuration of FS5100 panel is completed.

3.4.3 Configuration of FS5100 panel lines

The configuration of FS5100 panel lines is carried out on the setting panel of the **Line** object. This object is created on the basis of the **FS5100 panel** object on the **Hardware** tab of the **System settings** dialog box while constructing the **UniPos ACFA 5100-5200** object (**Error! Reference source not found.**) (see *Construction of the UniPos ACFA 5100-5200 object tree*).

Error! Reference source not found. Configuration of FS5100 panel lines is carried out the following way:

1. Go to the setting panel of the **Line** object (Figure 3.4—3).

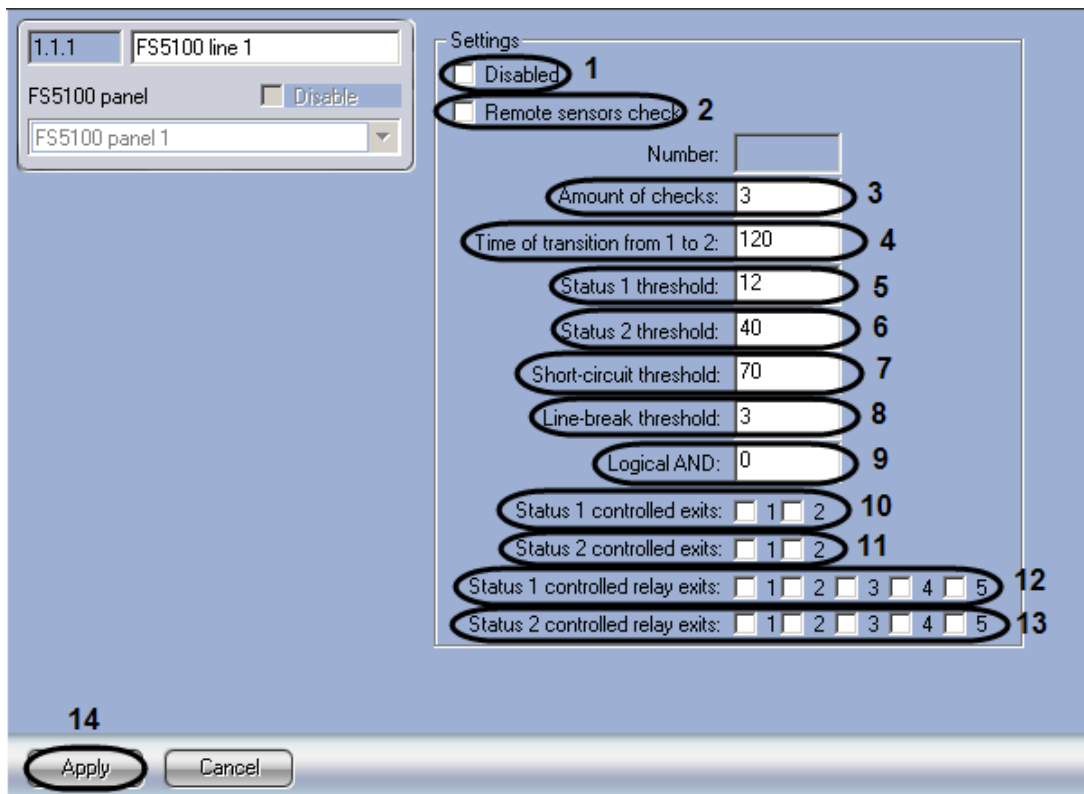


Figure 3.4—3 Setting panel of the Line object

2. To stop line inquiry set the **Disabled** checkbox (Figure 3.4—3, 1).
3. To check remote sensors set the **Remote sensors check** checkbox (Figure 3.4—3, 2).
4. In the **Amount of checks** field set the amount of checks after which the condition of fire will be confirmed. Number of checks can vary from 1 to 3 (Figure 3.4—3, 3).
5. In the **Time of transition from 1 to 2:** field set the time of transition from FIRE CONDITION STAGE I to FIRE CONDITION STAGE II (in seconds) (Figure 3.4—3, 4).
6. In the **Status 1:** field set threshold valuation of fire condition stage 1 in milliamperes (Figure 3.4—3, 5).
7. In the **Status 2:** field set threshold valuation of fire condition stage 2 in milliamperes (Figure 3.4—3, 6).
8. In the **Short-circuit threshold:** field set threshold valuation of the short-circuit in milliamperes (Figure 3.4—3, 7).

9. In the **Line-break threshold:** field set threshold valuation of the line-break in milliamperes (Figure 3.4—3, **8**).
10. In the **Logical AND:** field set the number of line that is in the logical dependence with the current line (Figure 3.4—3, **9**).

Note. If 0 value is set then there is no logic connection with the current line.

11. In order to control exits that are respondent for FIRE CONDITION STAGE I set corresponding **Status 1 controlled:** checkboxes (Figure 3.4—3, **10**).
12. In order to control exits that are respondent for FIRE CONDITION STAGE II set corresponding **Status 2 controlled:** checkboxes (Figure 3.4—3, **11**).
13. In order to control relay exits that are respondent for FIRE CONDITION STAGE I set corresponding **Status 1 controlled relay:** checkboxes (Figure 3.4—3, **12**).
14. In order to control relay exits that are respondent for FIRE CONDITION STAGE II set corresponding **Status 2 controlled relay** checkboxes (Figure 3.4—3, **13**).
15. To save changes click **Apply** (Figure 3.4—3, **14**).

Configuration of *FS5100* panel lines is completed.

3.5 Configuration of FS5200 panel

3.5.1 Procedure for configuring of FS5200 panel

The procedure for configuring of *FS5200* panel in the *ACFA Intellect* software package is the following:

1. configuration of *FS5200* panel;
2. configuration of *FS5200* panel outputs;
3. configuration of *FS5200* panel lines.

3.5.2 Configuration of FS5200 panel

The configuration of *FS5200* panel is carried out on the setting panel of the **FS5200 panel** object. This object is created on the basis of the **UniPos ACFA 5100-5200** object on the **Hardware** tab of the **System settings** dialog box while constructing the **UniPos** object tree (Figure 3.5—1) (see

Construction of the UniPos ACFA 5100-5200 object tree).

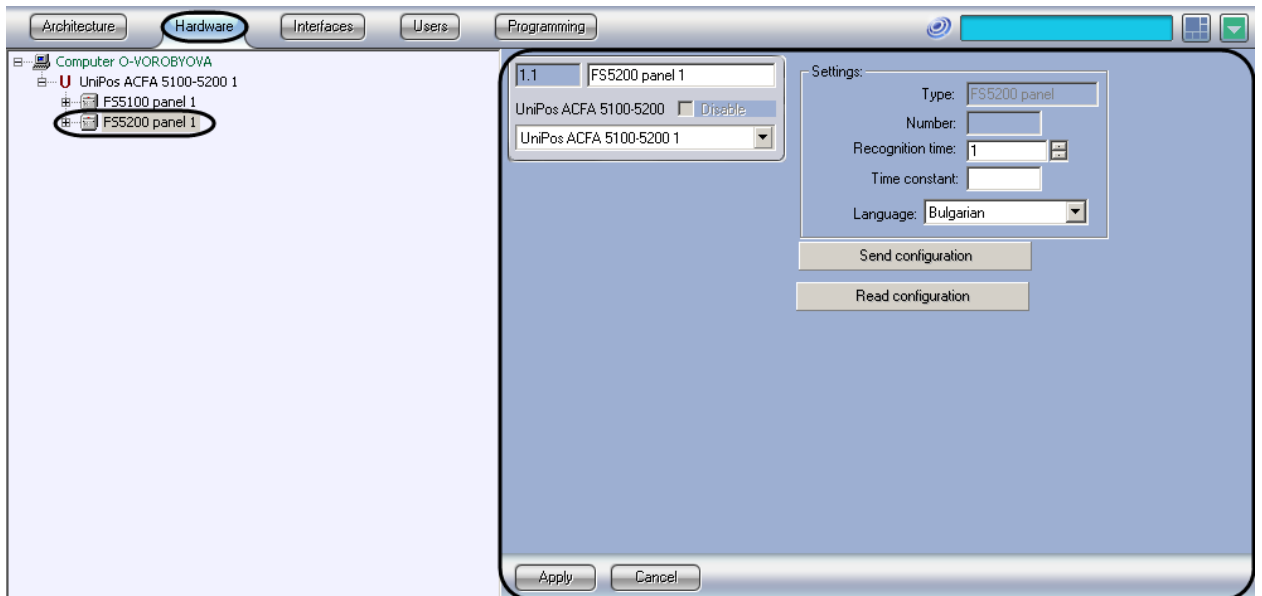


Figure 3.5—1 The “FS5200 panel” object

Configuration of *FS5200* panel is carried out the following way:

1. Go to the setting panel of the **FS5200 panel** object (Figure 3.5—2).

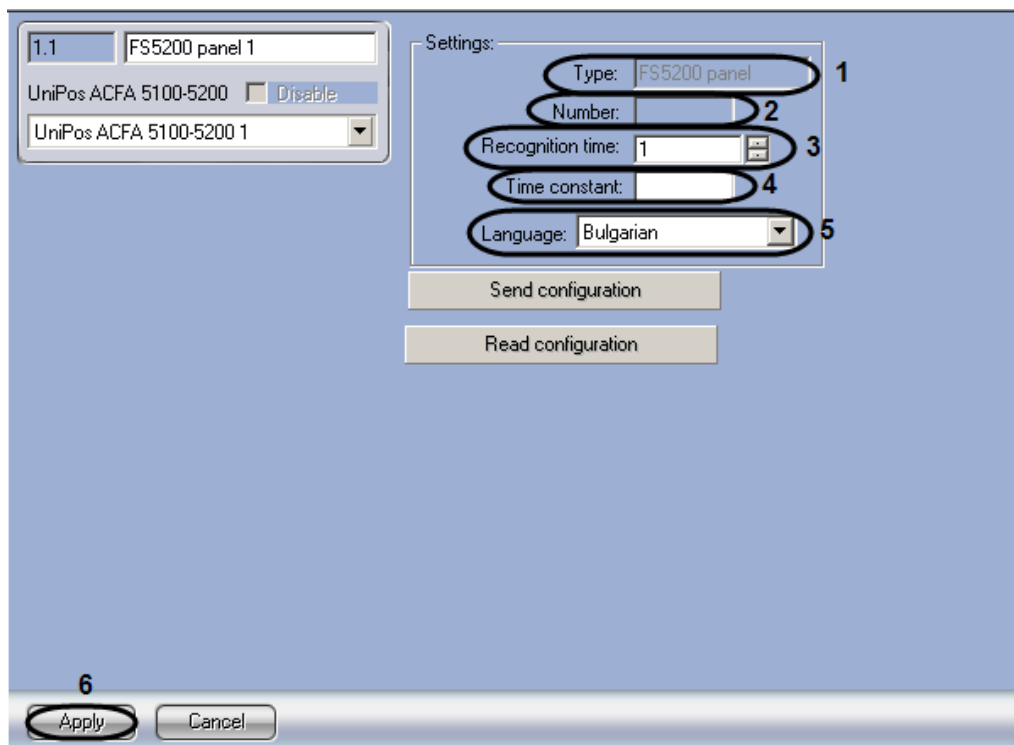


Figure 3.5—2 Setting panel of the FS5200 panel object

Note 1. In the **Type** field the name of FS5200 panel is displayed (Figure 3.5—2, 1).

Note 2. In the **Number** field the id of FS5100 panel is displayed (Figure 3.5—2, 2).

1. With the help of **up-down** buttons in the **Recognition time** field set the transition time from FIRE CONDITION STAGE I to FIRE CONDITION STAGE II (in seconds) (Figure 3.5—2, 3).

2. In the **Time constant:** field set time correction value for keeping rate of built-in clock in case of exceeding or lagging from astronomical time. Correction value possesses the value from -63 to 63 (Figure 3.5—2, 4).
3. To save changes click **Apply** (Figure 3.5—2, 5).

Configuration of *FS5200* panel is completed.

3.5.3 Configuration of FS5200 panel lines

The configuration of FS5200 panel lines is carried out on the setting panel of the **Line** object. This object is created on the basis of the **FS5200 panel** object on the **Hardware** tab of the **System settings** dialog box while constructing the **UniPos ACFA 5100-5200** object (Figure 3.5—3) (see

Construction of the UniPos ACFA 5100-5200 object tree).

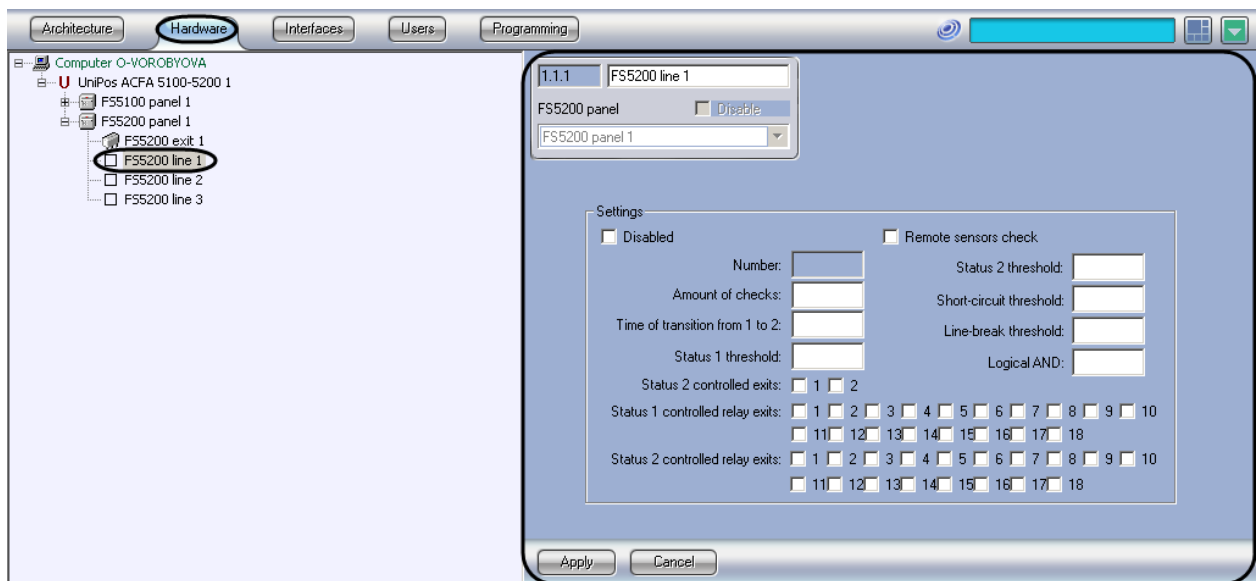


Figure 3.5—3 The Line object

Configuration of *FS5200* panel lines is carried out the following way:

1. Go to the setting panel of the **Line** object (Figure 3.5—4).

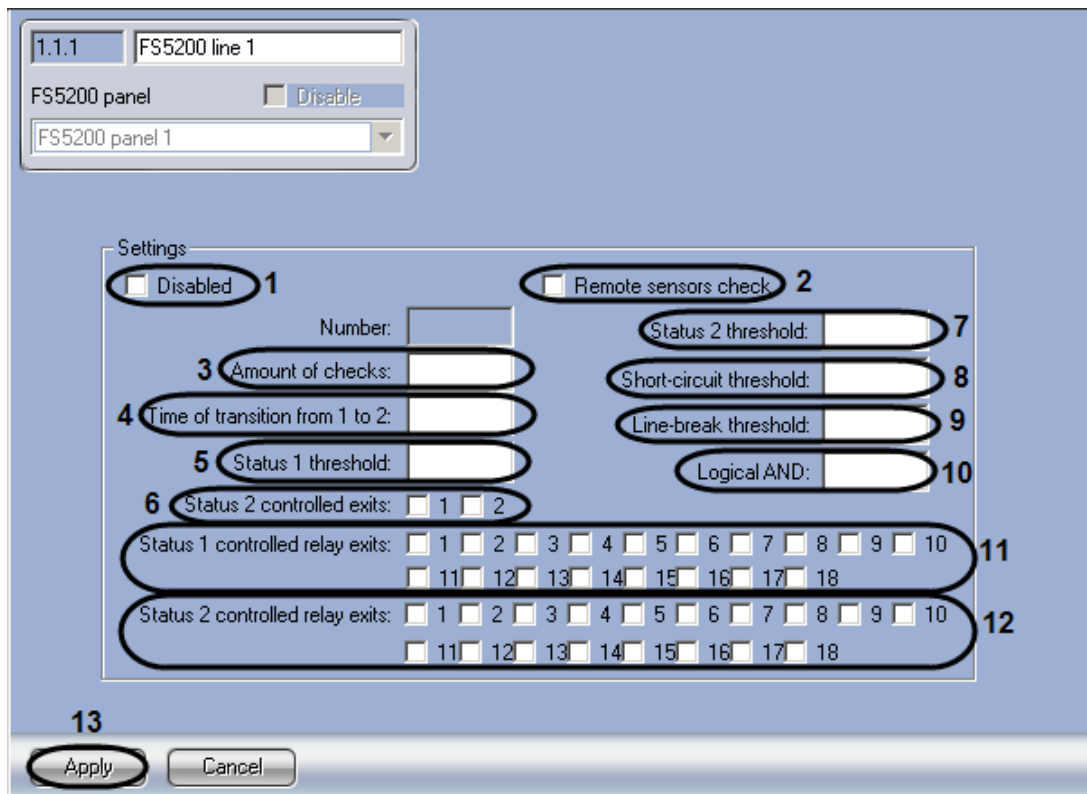


Figure 3.5—4 Setting panel of the Line object

2. To stop line inquiry set the **Disabled** checkbox (Figure 3.5—4, 1).
3. To check remote sensors set the **Remote sensors check** checkbox (Figure 3.5—4, 2).
4. In the **Amount of checks** field set the amount of checks after which the condition of fire will be confirmed. Number of checks can vary from 1 to 3 (Figure 3.5—4, 3).
5. In the **Time of transition from 1 to 2:** field set the time of transition from FIRE CONDITION STAGE I to FIRE CONDITION STAGE II (in seconds) (Figure 3.5—4, 4).
6. In the **Status 1:** field set threshold valuation of fire condition stage 1 in milliamperes (Figure 3.5—4, 5).
7. In order to control exits that are respondent for FIRE CONDITION STAGE II set corresponding **Status 2 controlled:** checkboxes (Figure 3.5—4, 6).
8. In the **Status 2:** field set threshold valuation of fire condition stage 2 in milliamperes (Figure 3.5—4, 7).
9. In the **Short-circuit threshold:** field set threshold valuation of the short-circuit in milliamperes (Figure 3.5—4, 8).
10. In the **Line-break threshold:** field set threshold valuation of the line-break in milliamperes (Figure 3.5—4, 9).
11. In the **Logical AND:** field set the number of line that is in the logical dependence with the current line (Figure 3.5—4, 10).

Note 1. If 0 value is set then there is no logic connection with the current line.

Note 2. The second line automatically depends on the current line.

12. In order to control relay exits that are respondent for FIRE CONDITION STAGE I set corresponding **Status 1 controlled relay:** checkboxes (Figure 3.5—4, 11).

13. In order to control relay exits that are respondent for FIRE CONDITION STAGE II set corresponding **Status 2 controlled relay**: checkboxes (Figure 3.5—4, **12**).
14. To save changes click **Apply** (Figure 3.5—4, **13**).

Configuration of *FS5200* panel lines is completed.

3.6 Configuration forwarding

One can forward configuration to *UniPos ACFA 5100-5200* devices in the software package.

Configuration forwarding to *UniPos ACFA 5100-5200* devices is carried out the following way:

1. Go to the corresponding setting panel of the **FS5100/5200 panel** object (Figure 3.6—1).

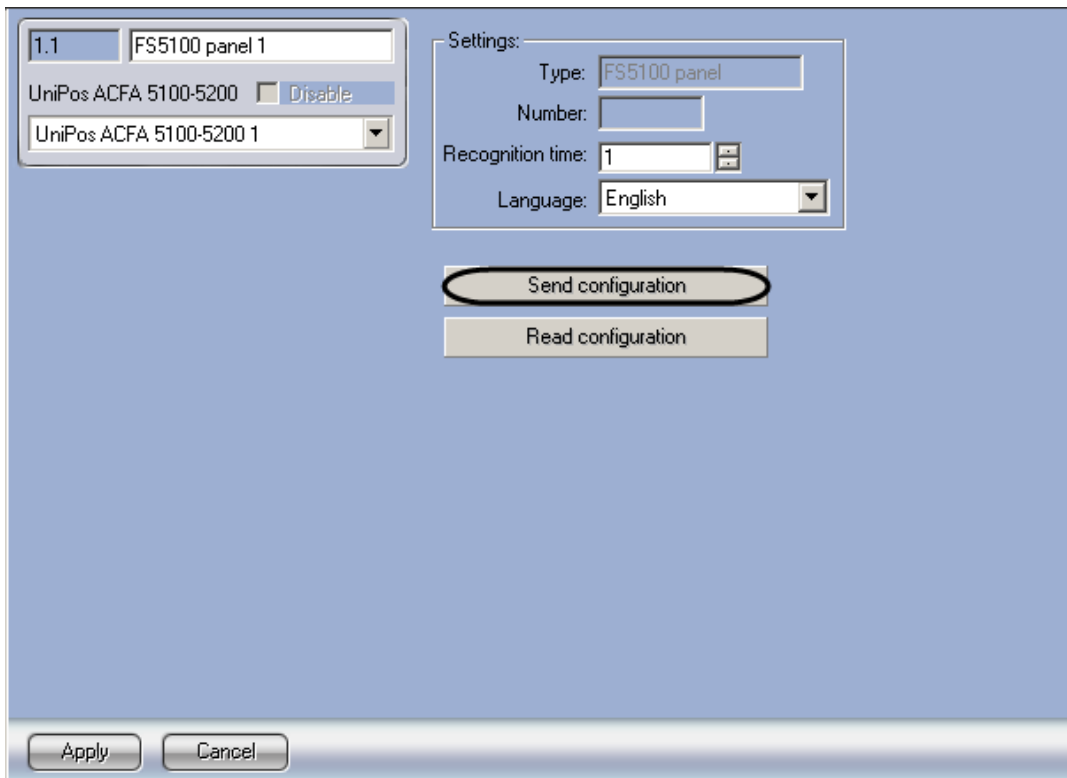


Figure 3.6—1 Configuration forwarding to *UniPos ACFA 5100-5200* devices

2. To forward configuration to *UniPos ACFA 5100-5200* devices click **Forward configuration** (Figure 3.6—1, **1**).

Note. If the configuration of device is failed (e.g. line parameters, output or panel are set wrong), then the dialog box with specified wrong parameters is displayed. It is necessary to correct wrong parameter values and repeat forwarding the configuration.

3. To save changes click **Apply** (Figure 3.6—1, **2**).

Configuration forwarding to *UniPos ACFA 5100-5200* devices is completed.

4 Operation of the UniPos ACFA 5100-5200 integration module

4.1 General information on the operation of the UniPos ACFA 5100-5200 integration module

The following interface objects are used in order to operate the UniPos ACFA 5100-5200 integration module:

1. **Card;**
2. **Event log.**

Information about these interface objects setting is given in the *Intellect software package: Administrator's Guide*.

Operation of interface objects is given in details in the *Intellect software package: Operator's Guide*.

4.2 Control over FS5100 panel

Control over FS5100 panel is carried out in the **Card** interactive box using the feature menu of the **FS5100 panel** object (Figure 4.2—1, Table 4.2-1).

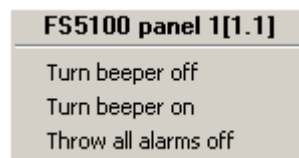


Figure 4.2—1 Feature menu of the FS5100 panel object

Note. To call the feature menu of the object right-click the icon of the object.

Table 4.2-1 Description of the feature menu's commands of the FS5100 panel object

Command of the feature menu	Function
Turn beeper off	Stops audio alarm notification
Turn beeper on	Activate audio alarm notification
Throw all alarms off	Changes over the panel from alarm mode into normal mode

4.3 Control over FS5200 panel

Control over FS5200 panel is carried out in the **Card** interactive box using the feature menu of the **FS5200 panel** object (Figure 4.3—1, Table 4.3-1).

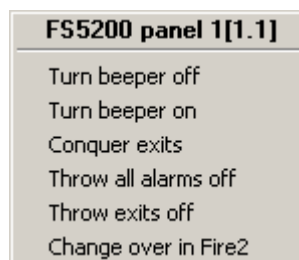


Figure 4.3—1 Feature menu of the FS5200 panel object

Note. To call the feature menu of the object right-click the icon of the object.

Table 4.3-1 Description of the feature menu's commands of the FS5200 panel object

Command of the feature menu	Function
Turn beeper off	Stops audio alarm notification
Turn beeper on	Activate audio alarm notification
Conquer exits	Disables all deployed exits associated with fire zone
Throw all alarms off	Changes over the panel from alarm mode into normal mode
Throw exits off	Changes over the panel from Fire mode into normal mode
Change over in Fire2	Changes over the panel into Fire-2 phase

4.4 Control over exits

Control over exits is carried out in the **Card** interactive box using the feature menu of the **FS5100 Exit** or **FS5200 Exit** object (Figure 4.4—1, Table 4.4-1).

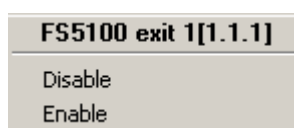


Figure 4.4—1 Feature menu of the FS5100 Exit object

Note. To call the feature menu of the object right-click the icon of the object.

Table 4.4-1 Description of the feature menu's commands of the FS5100 Exit object

Command of the feature menu	Function
Disable	Disables exit
Enable	Enables exit

4.5 Control over lines

Control over lines is carried out in the **Card** interactive box using the feature menu of the **FS5100 Line** or **FS5200 Line** object (Figure 4.5—1, Table 4.5-1).

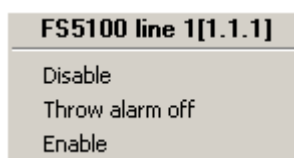


Figure 4.5—1 Feature menu of the FS5100 Line object

Note. To call the feature menu of the object right-click the icon of the object.

Table 4.5-1 Description of the feature menu's commands of the FS5100 Line object

Command of the feature menu	Function
Disable	Disables line
Throw alarm off	Changes over the line from alarm mode into normal mode
Enable	Enables exit