



# Polon Alfa Integration Module Configuration and Operation Manual

ACFA PSIM 1.1

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# 1 Introduction into Polon Alfa Integration Module Configuration and Operation Manual

## On the page:

- Purpose of the Document
- General information about Polon Alfa integration module

## 1.1 Purpose of the Document

*Configuration and operation manual for Polon Alfa integration module* is a reference and information guide meant for *Polon Alfa* configuration specialists and operators. This module is a part of *ACFA Axxon PSIM* software package.

The guide provides:

1. general information about *Polon Alfa* module;
2. information about how to configure *Polon Alfa* module;
3. information about how to use *Polon Alfa* module.

## 1.2 General information about Polon Alfa integration module

*Polon Alfa* integration module is the *ACFA PSIM* component. It controls and manages *Polon Alfa FAS* devices. *Polon Alfa FAS* devices cannot be configured in *ACFA PSIM*.

Before you start using *Polon Alfa* integration module, install *Polon Alfa FAS* hardware on the object under security surveillance and configure the system in the vendor's software.

### **Note.**

For more information about *Polon Alfa ACS*, please refer to official documentation for this system (manufactured by Polon-Alfa Spółka z ograniczoną odpowiedzialnością Sp.k.).

## 2 Supported hardware and licensing of the Polon Alfa integration module

<b>Manufacturer</b>	Polon-Alfa Spółka z ograniczoną odpowiedzialnością Sp.k. ul. Glinki 155 85-861 Bydgoszcz, Poland E-mail: polonalfa@polon-alfa.com.pl Tel: +48 52 36 39 263
<b>Integration type</b>	Low-level protocol
<b>Equipment connection</b>	RS-232

### Supported equipment

Equipment	Function	Features
POLON 4500	Fire extinguishing system control unit	Number of addressable lines: 4 x 127 addressable elements Number of detector zones: 512 Number of alarm variants: 17 8 relay outputs with potential-free change-over contacts 1 A / 30 V 4 signal lines 4 monitoring lines MSG-45 extinguishing module Number of potential-free relay outputs: 9 Number of potential relay outputs: 11 Number of supervising inputs: 11
POLON 4900	Fire extinguishing system control unit	Number of addressable lines: 4 or 8 x 127 addressable elements Number of detector zones: 1,024 Number of alarm variants: 17 16 relay outputs with potential-free change-over contacts 1 A / 30 V 8 signal lines 8 monitoring lines

### Protection

1 COM port, in fact any one fire extinguishing system control unit

## 3 Configuring Polon Alfa integration module

### 3.1 Configuration procedure for Polon Alfa integration module

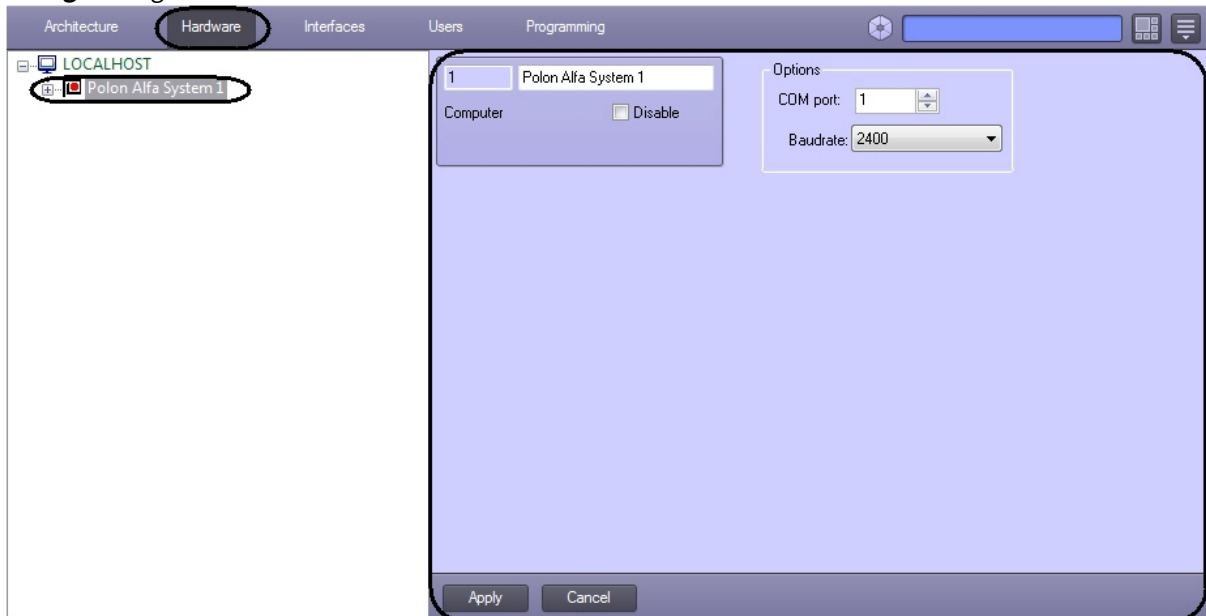
Here is the configuration procedure for *Polon Alfa* integration module:

1. Configure connection of *Polon Alfa FAS* to *ACFA PSIM*.
2. Create objects for *Polon Alfa FAS* devices.

### 3.2 Configuring connection of Polon Alfa FAS to ACFA PSIM

Connection of *Polon Alfa FAS* to *ACFA PSIM* is configured as follows:

1. Create the **Polon Alfa System** object under the **LOCALHOST** object in the **Hardware** tab of the **System settings** dialog box.



2. Set the following connection parameters on the settings panel of the **Polon Alfa System** object:
  - a. Specify the number of *ACFA PSIM* Server port in the **COM port:** field (1).



- b. Select the connection speed of controller in the **Baudrate:** dropdown list (2).
  - c. Click the **Apply** button.

Connection of *Polon Alfa FAS* to *ACFA PSIM* is now configured.

### 3.3 Creating objects for Polon Alfa FAS devices

The following elements of *Polon Alfa FAS* are available in *ACFA PSIM*: controllers (**Polon 4500** and **Polon 4900** objects), TSRs (**TSR 4500** and **TSR 4900** objects), security zones (**Zones** object), lines (**Line 4500** and **Line 4900** objects), input and output relays (**Controllable inputs**, **Potential Outputs** and **Relay Outputs** objects).

The **Polon 4500** and **Polon 4900** objects are created under the **Polon Alfa System** object. **TSR 4500**, **Zones**, **Line 4500**, **Controllable inputs**, **Potential Outputs**, **Relay Outputs** objects are created under the **Polon 4500** object. **Addressable detector 4500**, **Element EKS 4500**, **Element EWK 4500**, **Element EWS 4500**, **Element ROP 4500**, **Element SAL 4500**, **Element UCS 4500** objects are created under the **Line 4500** object. **EWK Input 4500** object is created under the **Element EWK 4500** object. **EWS Output 4500** object is created under the **Element EWS 4500** object. **UCS Output 4500** object is created under the **Element UCS 4500** object.

**Note.**

The same object tree is created under the **Polon 4900** object.

