

SensolRIS Programmer

Programming Unit for SensolRIS Devices

ATTENTION: This document is subject to change without notice!

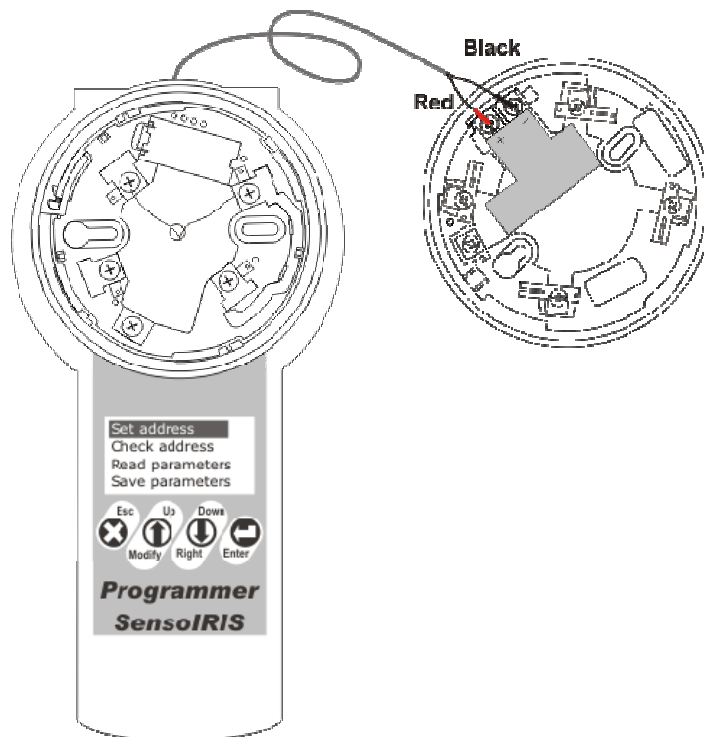
SensolRIS Programmer is a programming tool for setting addresses of SensolRIS devices (detectors, modules, call points and sounders), supporting communication protocol TTE. The programmer is designed for reading and writing addresses, and setting of parameters to SensolRIS series addressable detectors: T110, T110IS, S130, S130IS, M140 и M140140IS.

Technical Specifications

Main Power Supply	(4,2 ÷ 8)VDC
Back-up Power Supply:	Batteries 4 x 1,5V, size AA
Current consumption	
Standby (display backlight ON)	(28 ±2)mA @ 6VDC
Standby (display backlight OFF)	(22 ±2)mA @ 6VDC
Communication	(60 ±5)mA @ 6VDC
Range of the addresses	1 ÷ 250
English Menus	YES
Dimensions	225 x 102 x 65 mm
Weight (without batteries)	260g
Nominal Operating Temperature	-5°C ÷ 40°C
Storage temperature	-20°C ÷ +70°C
Related Humidity	≤93% @ +40°C





Connection Diagram



(Example for connecting to SensolRIS MC-D addressable base)



You can find a detailed connection diagram for every one SensolRIS device (modules, detectors, call points or sounders) in its individual installation manual.

Quick Reference Table for Button Functions

Button		Operating Menus						Function
		Main	Set address	Check address	Read parameters	Save parameters	Language	
	<i>Esc</i>	✓	✓	✓	✓	✓	✓	Rejects the settings. Exit to the main operating menu. Shows the current software version of the programmer and the logo of the manufacturer.
	<i>Up</i>	✓			✓	✓	✓	Scroll up to the previous menu or parameter.
	<i>Modify</i>		✓			✓		Increase the numeric digit with one unit.
	<i>Down</i>	✓			✓	✓	✓	Scroll down to the next menu or parameter.
	<i>Right</i>		✓			✓		Move the cursor with one step on the right.
	<i>Enter</i>	✓	✓	✓	✓	✓	✓	Confirm the settings. Start reading/ writing address and configuring parameters.

NOTE: The buttons  and  have a different functionality according the entered operating menu. The “✓” mark shows the menus for which the button is active and operates with the described functionality.

Address Programming Procedure

1. Connect the programmer to the device:
 - ◆ Mount the detector to the programmer’s base;
 - ◆ Use insulated clip connectors for SensolRIS MC-D addressable base module;
 - ◆ Use a cable with 5-pin block connector terminal for SensolRIS devices: MIO, MOUT, MC-Z, MCP150.
2. Power on the SensolRIS Programmer unit.
3. Choose a programming menu, set the address and run the writing function.
4. Wait the end of the procedure and remove the device. It is not necessary to power off the programmer unit.
5. Connect the next addressable device.
6. Proceed with the addressing or setting procedure.

NOTE: If you connect by mistake or other reasons more than one device to the SensolRIS Programmer, the unit will alert with an error message when you start writing and reading address function.

Messages

Successfully	The new address or parameter is successfully set/ read.
Unsuccessfully	The new address or parameter is not set/ read.
Wrong Address	The set address is out the range 1 ÷ 250.
No Device	There is no addressable device connected to the programmer.
More Devices	There is more than one device connected to the programmer.
Commun. Error	Unsuccessful communication with the addressable device.
Overload	The communication line is overloaded.
Short Circuit	Short circuit in the communication line.
NONE	This message is shown in those cases when the installer tries to set parameters to a detector without reading first the current factory settings.

Operating with SensIRIS Programmer

1. Setting (writing) an address

- ◆ Press the **⌫** (**Esc**) button several times to exit back to the main programming menu in case you have entered other menus earlier.
- ◆ Use the **⬆** (**Up**) and **⬇** (**Down**) buttons to choose the “Set Address” menu.

```
Set address
Check address
Read parameters
Save parameters
```

- ◆ Press the **⏎** (**Enter**) button to enter the menu.

```
New Address  001
Enter Address
```

- ◆ Use the **⬆** (**Modify**) and **⬇** (**Right**) buttons to set address for the device displayed on the first row of the screen:
 - Press the **⬇** (**Right**) button to move the cursor on the right. When is reached the last position of the address, the cursor will move automatically to the first digit of the address.
 - Press the **⬆** (**Modify**) button to increase the digit with one unit. You can increase the digit when the cursor is blinking over it. When the cursor is over the least significant digit (the last right digit) the increasing is done with transfer to the next two most significant digits.

Examples:

1. The displayed address is **009** and the next pressing of the **⬆** (**Modify**) button will increase the address to **010**.
2. The displayed address is **099** and the next pressing of the **⬆** (**Modify**) button will increase the address to **100**.
3. The displayed address is **099** and the next pressing of the **⬆** (**Modify**) button will change the address to **009**. In that case, there is no transfer to the most significant digit because the cursor is under the middle digit of the address.

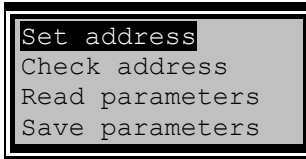
- ◆ Press the **⏎** (**Enter**) button to start the writing procedure. While the addressing procedure is running the screen displays:

```
New Address  001
Wait please
```

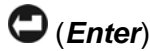
- ◆ The writing procedure completes when the screen displays:

```
New Address  001
Successfully
```

Example: To set address 115 to a device do the following:



Choose the "Set address" start menu – scroll with "UP" and "Down" buttons if necessary.



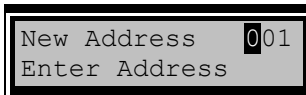
Press the "Enter" button.



"New address" setting screen. The setting always starts from the least significant digit of the address.



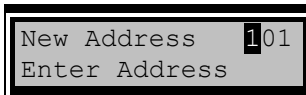
Press "Right" button to move to the first digit of the address.



The cursor is under the first digit of the address.



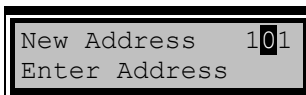
Press "Modify" button to increase the digit with one unit.



The first digit is set. Now move to the second digit.



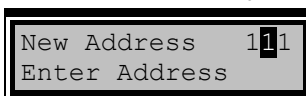
Press "Right" button to move to the next digit of the address.



Now you have to set the second digit of the address.



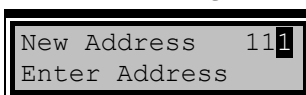
Press "Modify" button to increase the digit with one unit.



The second number is set.



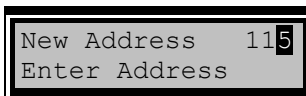
Press the "Right" button to move to the last digit.



Now you have to set the last digit of the address.



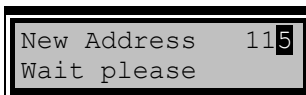
Press "Modify" button 4 times to increase the digit with four units.



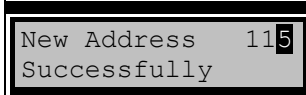
The address is set.



Press the "Enter" button to write the address to the connected device.



Wait until the writing procedure runs on.



The new address is successfully set.



Press "Esc" button several times to return to the main menu.

2. Reading the address of the device

- ◆ Press the **ⓧ** (*Esc*) button several times to exit back to the main programming menu in case you have entered other menus earlier.
- ◆ Use the **Ⓢ** (*Up*) and **Ⓣ** (*Down*) buttons to choose the “Check address” menu.

```
Set address
Check address
Read parameters
Save parameters
```

- ◆ Press the **Ⓜ** (*Enter*) button to start reading the address.
- ◆ While the reading procedure is running on, the screen displays:

```
Address >
Wait please..
```

- ◆ After the reading is over the programmer displays on the right up corner the address of the device.

- If the reading is successful the screen displays message:

```
Address >001
Successfully
```

- If the reading is unsuccessful the screen displays message:

```
Address >
Unsuccessfully
```

3. Reading Parameters

Here in this menu, the installer can review the set parameters of SensolRIS series addressable detectors: T110, T110IS, S130, S130IS, M140 and M140140IS.

The parameters differ according the type of the detector. The parameters available for reading are listed in the table below:




T110, T110IS	S130, S130IS	M140, M140IS
Address	Address	Address
Day alarm level: Class*	Day alarm level: Sensitivity**	Day alarm level: Sensitivity **
Night alarm level: Class*	Night alarm level: Sensitivity **	Night alarm level: Sensitivity **
CONFIG	OPTOFFSET	OPTOFFSET
Version	OPTGAIN	OPTGAIN
	CALIBRATION	CALIBRATION
	CONFIG	CONFIG
	Version	Version

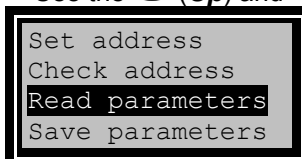
* Class according EN54-5: A1R/ A2R/ BR/ CR/ A1S/ A2S/ BS/ CS


** Sensitivity level according EN54-7: Low/ Middle/ Normal/ High

Note: At SensolRIS M140 and SensolRS M140IS detectors, class A1R is factory set for the heat part and could not be changed.

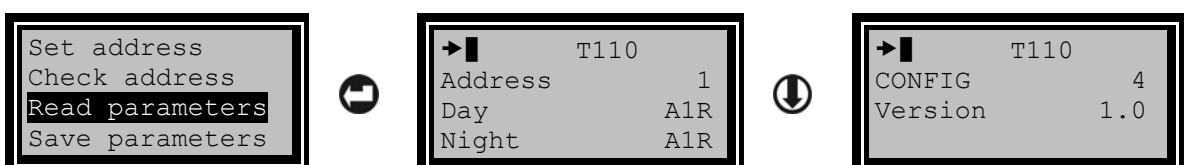
To view the set parameters of a detector:


- ◆ Press the  (**Esc**) button several times to exit back to the main programming menu in case you have entered other menus earlier.
- ◆ Mount the detector to the programmer's base.
- ◆ Use the  (**Up**) and  (**Down**) buttons to choose the "Read parameters" menu:



- ◆ Press  (**Enter**) button. The message "Read parameters. Wait, please..." is on the screen while reading the detector parameters, and after that is displayed the type of the detector and the respective parameters accessible for viewing.
The blinking arrow "►" pointing to the right, means that the programmer is reading parameters. On the same row is displayed and the type of the detector.
- ◆ The parameters differ according the type of the detector:
 - **Address** – Shows the current address of the detector.
 - **Day** – Shows the current set day alarm level - for the heat detectors the class according EN-54, and for the optical-smoke detectors – the level of sensitivity of the smoke chamber according EN-54.
 - **Night** - Shows the current set night alarm level - for the heat detectors the class according EN-54, and for the optical-smoke detectors – the level of sensitivity of the smoke chamber according EN-54.
 - **OPTOFFSET, OPTGAIN, CALIBRATION, CONGIF** – specialized parameters configured from the manufacturer.
 - **Version** – Shows the current software revision.

Example: Reading parameters of SensolRIS T110 addressable detector.



Note: To review all parameters of SensolRIS S130(IS) and M140(IS) use the  (**Down**) button one more time.


4. Saving of parameters

Here in this menu, the installer can enter and save new parameters for SensolRIS series addressable detectors: T110, T110IS, S130, S130IS, M140 and M140140IS.

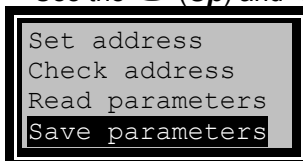
The programming options are: changing the address of the detector and setting of new parameters for day and night alarm levels.
















ATTENTION: To ensure correct parameters setting, it is obligatory first to read the current set parameters and then to enter the “Save parameters” menu!

To configure new parameters for a detector:

- ◆ Press the  (**Esc**) button several times to exit back to the main programming menu in case you have entered other menus earlier.
- ◆ Mount the detector to the programmer’s base.
- ◆ Enter “Read parameters” menu and review the set parameters. Exit to the main menu.

- ◆ Use the  (**Up**) and  (**Down**) buttons to choose the “Save parameters” menu:



- ◆ Press the  (**Enter**) button.
The blinking arrow “←” pointing to the left, means that the programmer is saving (writing) parameters to the detector. On the same row is displayed and the type of the detector.
- ◆ Configuration and saving of parameters. Use the  (**Up**) and  (**Down**) to scroll over the different parameters.
 - **Address** – Shows the current address of the detector.
To enter new address, press the  (**Enter**) button. The programmer enters in settings mode – the last digit of the address is blinking. Follow the same procedure described in “Set address” menu. Confirm the new entered address with  (**Enter**) button. Press the  (**Down**) button to move to the next parameter.
 - **Day level** – Shows the current set day alarm level - for the heat detectors the class according EN-54, and for the optical-smoke detectors – the level of sensitivity of the smoke chamber according EN-54.
To enter new Day level, press the  (**Enter**) button. The programmer enters in settings mode – the edited parameter is blinking. Press the  (**Down**) button until you reach the desired class or sensitivity level. Confirm the new entered parameter with  (**Enter**) button. Press the  (**Down**) button to move to the next parameter.
 - **Night level** - Shows the current set night alarm level - for the heat detectors the class according EN-54, and for the optical-smoke detectors – the level of sensitivity of the smoke chamber according EN-54.
To enter new Night level, press the  (**Enter**) button. The programmer enters in settings mode – the edited parameter is blinking. Press the  (**Down**) button until you reach the desired class or sensitivity level. Confirm the new entered parameter with  (**Enter**) button. Press the  (**Down**) button to move to the next parameter.
 - **Save** – Saving of the new set address and/ or parameters to the detector. Press the  (**Enter**) button to start. For a while the message “Wait, please...” is displayed. The message “Successfully” means that the new address and/ or parameters are successfully configured to the detector.

5. Choosing language

- ◆ Press the **ⓧ** (**Esc**) button several times to exit back to the main programming menu in case you have entered other menus earlier.

- ◆ Use the **Ⓢ** (**Up**) and **Ⓣ** (**Down**) buttons to choose the “Language” menu.

```

Check address
Read parameters
Save parameters
Language
  
```

- ◆ Press the **Ⓜ** (**Enter**) button to enter language menu.

- ◆ Use the **Ⓢ** (**Up**) and **Ⓣ** (**Down**) buttons to select the desired language:

```

English
Български
Turkce
Espanol
  
```

- ◆ Press the **Ⓜ** (**Enter**) button to confirm your choice or **ⓧ** (**Esc**) button to cancel the operation.

- ◆ The programmer will automatically load the new language and exit to the main menu:

```

Check address
Read parameters
Save parameters
Language
  
```

- ◆ The language settings will be saved even if the programmer is switched off.

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