

Esmi Impresia Handheld Programming Tool

Instruction Sheet
R10239GB0



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1 Esmi Impresia Handheld Programming tool

Esmi Impresia Handheld Programmer is a programming tool for setting addresses of Esmi Impresia devices (detectors, modules, call points and sounders), supporting Schneider Electric communication protocol. The programmer is designed for reading and writing addresses and setting of parameters to Esmi ELC range addressable detectors.

1.1 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) Standby (display backlight OFF) Communication	(28 ±2)mA @ 6VDC (22 ±2)mA @ 6VDC (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

1.2 Reference Table for Button Functions

Button		Operating Menu						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.

2 Address Programming Procedure

1. Connect the programmer to the device:
 - Mount the detector onto the programmer's base;
 - Use insulated clip connectors for Esmi Impresia Standard Base (FFS06741018) addressable base module;
 - Use a cable with 5-pin block connector terminal for Esmi Impresia devices
2. Turn the power on.
3. Choose a programming menu, set the address and run the writing function.
4. Wait until the end of the procedure and then remove the device. It is not necessary to turn the 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 Esmi Impresia Handheld Programming Tool, the unit will alert with an error message when you start writing and reading address function.

2.1 Messages

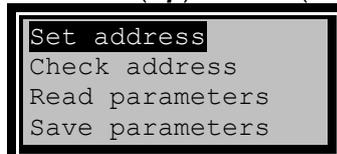
Successfully	The new address or parameter is successfully set/ read.
Unsuccessfully	The new address or parameter is not set/ read.
Wrong Address	The set address is out the range 1 ÷ 250.
No Device	There is no addressable device connected to the programmer.
More Devices	There is more than one device connected 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.

3 Operating with Esmi Impresia Handheld Programming Tool

3.1 Setting (writing an address)

Save parameters 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.



Press the  (*Enter*) button to enter the menu.



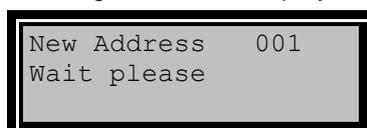
Use the  (*Modify*) and  (*Right*) buttons to set address for the device displayed on the first row of the screen:

- 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:



The writing procedure completes when the screen displays:



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.



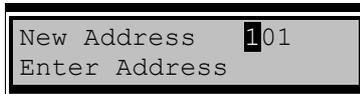
Press "Right" button to move to the first digit of the address.



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.



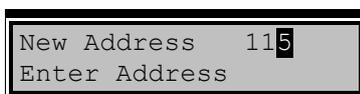
Press the "Right" button to move to the last digit.



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.

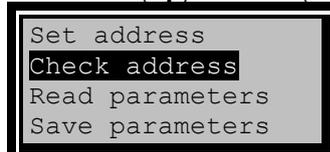


Press “Esc” button several times to return to the main menu.

3.2 Reading the address of the device

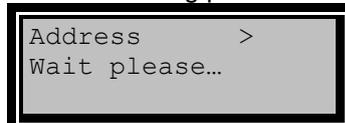
Press the  (*Esc*) button several times to exit back to the main programming menu in case you have entered other menus earlier.

Use the  (*Up*) and  (*Down*) buttons to choose the “Check address” menu.



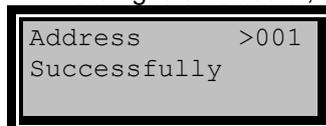
Press the  (*Enter*) button to start reading the address.

While the reading procedure is running on, the screen displays:

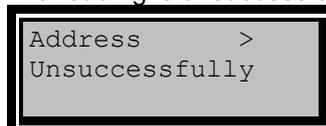


After the reading is over the programmer displays on the right up corner the address of the device.

If the reading is successful, the screen displays message:



If the reading is unsuccessful the screen displays message:



3.3 Reading parameters

In this menu, the installer can review the set parameters of Esmi Impresia series addressable detectors.

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

Esmi Impresia Heat Detector (FFS06741002)	Esmi Impresia Smoke Detector (FFS06741001)	Esmi Impresia Multicriteria Detector (FFS064741003)
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

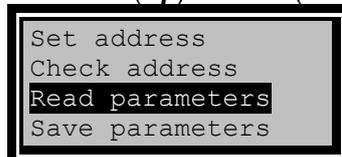
* Class according EN54-5: A1/R, A2/S, B/S

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

Note: For Esmi Impresia Multicriteria detector the class A1R is factory set for the heat part and cannot be changed.

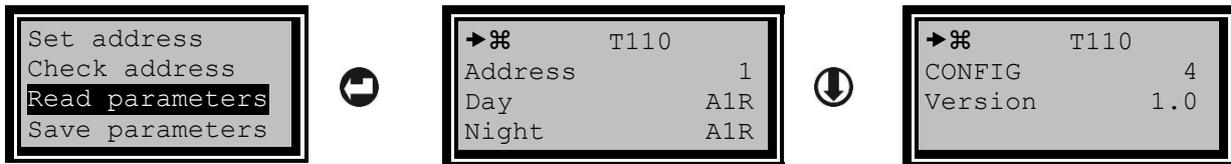
To view the set parameters of a detector:

- ◆ 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 Esmi Impresia Heat Detector addressable detector.



Note: To review all parameters of Esmi Impresia Smoke Detector and Esmi Impresia Multicriteria Detector use the (Down) button one more time.

3.4 Saving of parameters

Here in this menu, the installer can enter and save new parameters for Esmi Impresia range addressable detectors.

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.

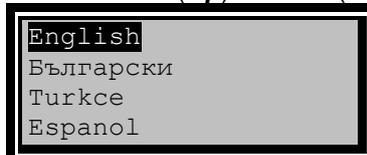
- **Save** – Saving of the new set address and/ or parameters to the detector. Press the  (**Enter**) button to start. For a while the message “Wait, please...” is displayed. The message “Successfully” means that the new address and/ or parameters are successfully configured to the detector.

4 Choosing a 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.



- ◆ Press the  (*Enter*) button to enter language menu.
- ◆ Use the  (*Up*) and  (*Down*) buttons to select the desired language:



- ◆ 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:



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