

COMMUNICATION PARAMETER PROGRAMMER ESA PROG-1 SERIES

FEATURES

- Supply voltage 9V dc from battery programmed to automatically disconnect after 5 minutes
- Low battery signal Lob
- Operating temperature: 5÷45°C
- Storage temperature: 0÷60°C
- Electrical protection: IP40
- Maximum dimensions 145X85X39 mm
- Weight 250 g
- Serial interface infrared or ECS (double-wire)
- Distance with infrared interface 100 mm max from device
- Distance with ECS interface 1 m max from device
- Baud rate 4800
- Data bits 8
- Parity none
- Stop bits 1 or 2
- Communication line voltage (ECS) 25 Vdc max
- Connectable units max 1



F7061101

DESCRIPTION

PROG1 is a device designed to program the communication parameters of the flame control devices of the ESTRO series and of the previous devices. The configuration may be carried out either via serial line (ECS) or infrared signals. Due to its small size and the fact it has no supply cable the device is easy to handle and use.

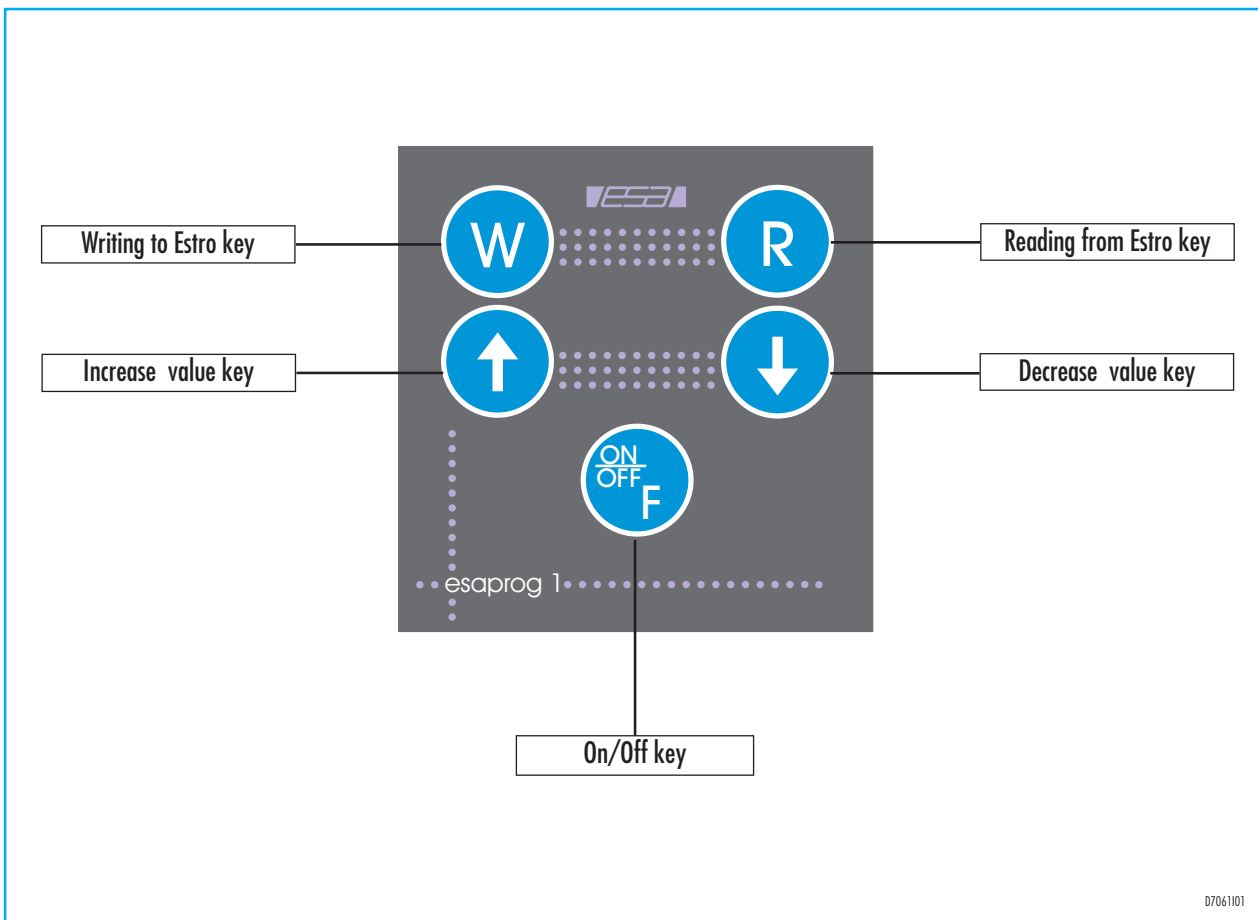
The front panel has 5 buttons for the selection and transmission of the parameters and an LCD for data display; the infrared interface is on the front, whereas the connector for the ECS connection (double

wire) is on the side.

When the device is switched on, it displays the serial address (segment and node) which may be modified and transmitted to the flame control. The choice of the type of interface is to be done during the "Programming" mode.

The device displays the sequence of the operations it is carrying out, and also any possible communication errors.

DESCRIPTION OF DISPLAY AND KEYBOARD (ALPHANUMERIC DISPLAY)



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When in automatic mode, it displays either the serial address to be programmed or the address which has been read by a unit. During the change of the communication parameters a blinking point is displayed near the value which can be modified via the arrow keys; during the communication with the flame control device it shows which operation it is carrying out (either reading or writing).

While in "Programming" mode, it displays the operations which can be modified and all acceptable values.

The keyboard is made up of 5 keys which can be divided into the following groups:

- writing (W) and Reading (R) keys
- increase (↑) and decrease (↓) keys
- Function (F) key

LIST OF MAIN FUNCTIONS

Operation	Mode	Description
W	Automatic	It allows writing via the selected serial interface of the communication parameters shown on the display. During this operation the word "writing" is displayed.
R	Automatic	It allows reading via the selected serial interface of the communication parameters programmed on the flame control device, then showing them on the display. During this operation the word "reading" is displayed.
▲ 0 ▼	Automatic	It allows the change of the selected value.
F	Automatic	When the device is off, it enables the switching on if pushed for one second. It allows the selection of the communication parameters to be modified one after the other. When the device is on, it enables the switching off if pushed for three seconds.
▲ F	Automatic	It enables the "Programming" mode
▲ 0 ▼	Programming	It displays the possible configurations and parameters which can be modified one after the other. In the phase of parameter changing, it enables the change of the values.
F	Programming	It enables the change of the value of the current parameter. After the change, it memorizes the selected value.
▲ F	Programming	It enables the automatic mode again.

SWITCHING ON AND SWITCHING OFF

To switch on Prog1 keep the function key (F) pressed for at least 1 second. At the beginning of this phase the words "ESA" and "PROG1" will be displayed, then the device will switch to the automatic mode and the values of the communication parameters will be displayed. When switched on, the device automatically selects the infrared interface whereas the ECS interface must be manually enabled during the

"programming" mode.

To switch off the device keep the function key (F) pressed for at least 3 seconds and when the sign "PWR OFF" is displayed, release the key.

Automatic switching off occurs after 5 minutes if the device has not been used.

AUTOMATIC MODE

When in "automatic mode" Prog1 displays the values of the configuration parameters: segment (S) and node (N). If the device is in "automatic mode", it is possible either to read the communication parameters selected in the flame control device which are then shown on the display, or to change them and program them again in the flame control device.

During whatever reading or writing operation, the flame control device must be in a manual lockout (0) position, during the communication the display will show 2 vertical lines (| |) if connected to the infrared interface, and a central line (-) if connected to the ECS interface.

After every communication, the flame control device carries out a start-up program (8) switching to manual lockout.

The reading of parameters takes place when placing Prog1 to less than 100 mm from the infrared interface of the flame control (below

the display), pushing the "R" key and keeping it pressed until the end of communication.

The change of the values of the configuration parameters is obtained by modifying first the indication of Prog1 and then transmitting it to the flame control via the "W" key.

To modify the values press the "F" key, by selecting the change in the segment (blinking decimal point) and selecting the new value via the increase and decrease keys. After changing the segment (the decimal point goes on blinking) writing is possible either via the "W" key, or pushing the "F" key and executing the change in the node (the blinking points moves further). At the end of the selection of the new address if you put Prog1 close to the flame control and push the "W" key the configuration of the new values takes place.

Should the communication on the display not take place the word "error" is displayed.

Operation	Display	Description
none	S - A N - 1	Displays segment and node of flame control
F key	S - A. N - 1	The change in the segment is selected
▲ ○ ▼ key	S - C. N - 1	The new segment is selected
W key	writing	The new address to the flame control is written
none	S - C. N - 1	If no writing errors occur, the status before writing is resumed
▲ ○ ▼ key	S - D. N - 1	A new segment is selected
W key	writing	The address is written in another flame control
none	S - D. N - 1	If no writing errors occur, the status before writing is resumed
F key	S - D N - 1.	The change of the node is selected
▲ ○ ▼ key	S - D N - 2.	The new node is selected
W key	writing	The new address is written to the flame control
none	S - D N - 2.	If no writing errors occur, the status before writing is resumed
F key	S - D N - 2	The decimal key stops blinking
R key	reading	Reading on another unit
none	error	Reading error due to connection problems (too far away etc.)
none	S - D N - 2	After 4 seconds the error is reset in order to try reading and writing again

When the serial interface to be used is an ECS it is necessary to carry out all the connections while Prog1 and the flame control device are off, and to switch them on for the configuration: remember it is only possible to connect one flame control device to the ECS outlet.

PROGRAMMING MODE

While in "programming " mode, Prog1 allows the communication interface to be modified.

Operation	Display	Description
none	S - A N - 1	Displays segment and node of flame control
▲ and F keys	PROGRAM	Programming mode
none	comm Ch	Communication interface selection
F key	INFRAR.	Infrared interface selected
▲ or ▼ keys	ECS WIR	ECS interface selected (double wire)
F key	dOnE	Selection confirmed
none	comm Ch	Communication interface selection
▲ and F keys	S - A N - 1	Automatic mode

WARNING

- Prog1 must be used only by staff who have been authorised to modify the communication parameters of the flame control devices.
- Avoid use where there are magnetic or electric fields and where it is directly exposed to radiation, heat or liable to be covered with dust or dirt.
- Programming is possible only if the flame control device is in manual lockout (0).
- If something is wrong with programming the word "error " is displayed for 4 seconds.
- Should programming be interrupted by external causes and the flame control device blocked during the configuration, it is necessary to disconnect and connect it again, or to program it again.
- If the supply battery is to be changed, respect the features of the previous battery.
- This device is made up of no parts which can be repaired by the user. Should any malfunctioning occur, please return the device to the post-sale assistance service.
- The selection of a type of interface automatically excludes the other type.