



## MAINTENANCE

The minimum maintenance recommended for a module consists of a visual inspection, as well as a periodic operating test.

For the operating test, follow the previously indicated procedure. To facilitate the resetting of the Algorithmic Panel, it can work in zone test mode. (See the operating manual of the corresponding algorithmic panel).

## MODULE CODING

All algorithmic equipment must be coded with a number as corresponds to its personalization. The recording of the module numbering can be carried out from:

- 1. AE/SA-PRG manual address programming. See the programmer's manual for its coding.
- 2. Algorithmic Panel. See operations manual of the algorithmic panel for its coding.

Program a number between **1** and **125** as corresponds for their personalization. For the algorithmic System, the module occupies a single position inside the loop, al though the text and operation can be personalized of up to 8 outputs, according to the model.

The identification number of the unit, as well as the operation pilot, is stored in EEPROM memory.

Before connecting the module to the algorithmic loop, verify the coding is correct.

# INHIBITION OF FLASHING OF THE OPERATION PILOT

The operation pilot mode can be altered by the AE/SA-PRG programmer. By default, the operating mode is activated.

### **TECHNICAL CHARACTERISTICS**

Power supply voltage: Consumption when idle: Consumption in alarm state: Module Algorithmic loop wiring			<ul> <li>18 ~27 V (AE/SA-CTL Algorithmic loop card).</li> <li>1.1 mA</li> <li>Module AE/SA-2E: 1.2 (2 inputs activated) AE/SA-8E: 1.3 (8 inputs activated)</li> <li>2-wire. Recommended cross-section 1.5 mm<sup>2</sup></li> <li>Removable jacks for all connections</li> </ul>		
Inputs:	Voltage-		free contacts.		
Programmable Temperature range:		for open or closed contact 0° - +50° C (ambient temperature)			
Humidity range: Casing material:		Relativ ABS	e humidity 10% - 90% wit		
Luminous indicator:			Operation pilot: Activation:	red flashing (can be inhibited). red intermittent	
Size: Fastening: Weight:	4 100		105 x 82 x 25 mm holes, diam. 3.5 mm g.		

#### ALGORITHMIC INPUT MODULES TWO INPUT MODULE: AE/SA-2E EIGHT INPUT MODULE: AE/SA-8E

Microprocessor-based units designed to be u sed with the algorithmic fire de tection panels of AGUILERA ELECTRONICA to manage communications and monitor voltage-free input signals.

The operation of each input (NO or NC) can be sel ected by open contact or closed contact in idle mode, by programming in the personalization of the installation.

It is also possible to personalize each input individually, with the type of signal it con trols, the location and the state change (garage extractor activated, emergency exit open, etc.)



The module sends a signal to the Algorithmic Panel indicating the change of state of each input.

Fabricated according to the standard prEN 54-18:2005.

It includes:

- Operation pilot: It indicates it is operating correctly, giving red-colored flashes through the status LED. The flashing frequency depends on w hether the equipment in idle or has an input activ ated. If the fla shing is annoying in particular cases, it can be inhibited individually.
- Removable jacks, to facilitate connection in the field.
- The circuit's protective case leaves the status LED of the unit visible.
- Individual identification: Each module is identified individually with a number inside the installation loop. This number is stored in EEPROM memory whereby it is kept even though the module is without power for a long period.

Ae-man-825-0.0 v1.1

TECHNICAL MANUAL

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# WIRING SCHEMATIC

#### Assembly

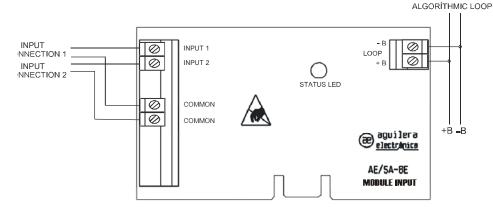
For the installation of the module s, open the module cover by pressing on its central part. Secure the module with 4 screws using the fastening holes foreseen for this purpose.

## Wiring

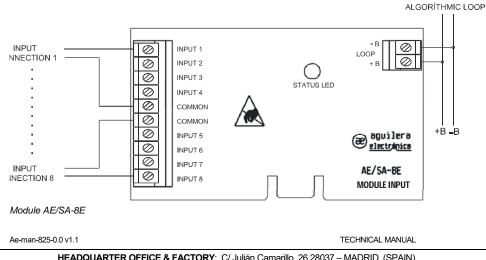
Disconnect the supply voltage of the detection loop before installing the module.

- Connect the positive input of the detection loop to the + B terminal.
- Connect the negative input of the detection loop to the B terminal.

Wire the necessary inputs as shown in the following schematics.



Module AE/SA-2E



Once the connections have been made, close the module, taking care that the status LED remains visible.

# **VERIFICATION OF OPERATION**

The modules must be tested after installation and undergo periodic maintenance.

Before carrying out the operating tests, notify to the competent authority that maintenance tasks are being carried out in the fire de tection system, and make sure that all the evacuation, operation and tripping functions for automatic extinguishing are disabled.

- When removing the module connection plug, the area should be put in the fault state. If this is not done, check it is correctly programmed in the Algorithmic Panel.
- Check that the module is working, by observing that it emits red colored flashes every 10 s, prov ided this function has not been inhibited individually. If the flashing is not inhibited and the module does not emit them, this means it has failed or the wiring is faulty.
- Activate the module outputs and check the Algorithmic Panel receives the state change. The frequency at which the luminous indicator flashes will also increase.
- Restore the outputs to the idle state. To reset the system, press the RESET key on the Algorithmic Panel.

The modules that have not passed the operating tests should be replaced and repaired.

When the tests have been completed, reconnect the evacuation, operation and extinguishing functions again, and notify the competent authority that the fire detection system is again in service.

### Approvals



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