

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 programmer. See the programmer's manual for its coding.
2. Algorithmic Panel. See operating manual of the algorithmic panel for its coding.

Program a number between **1** and **125** as corresponds for its personalization. For the Algorithmic System the module occupies a single position inside the algorithmic loop.

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 modified when carrying out the module coding. By default, the operating mode is activated.

TECHNICAL CHARACTERISTICS

Power supply voltage:	18 ~27 V (AE/SA-CTL Algorithmic loop card).
Consumption when idle:	1.8 mA
Consumption in alarm state:	1.9 mA
Algorithmic loop wiring	2-wire. Recommended cross-section 1.5 mm ² Removable jacks for all connections
Output:	Voltage-free contacts. (NO, COMMON, NC)
Relay characteristics:	Maximum resistive load = 1 A / 30 Vdc - 0.5 A / 125 Vac Maximum switching voltage = 125 Vdc - 125 Vac Maximum switching power = 30 W - 125 VA
Temperature range:	0° - +50° C (ambient temperature)
Humidity range:	Relative humidity 10% - 90% without condensation.
Casing material:	ABS
Luminous indicator:	Operation pilot: red flash (can be inhibited). Activation: red intermittent
Size:	105 x 82 x 25 mm
Fastening:	4 holes, diam. 3.5 mm
Weight:	100 g.

OPERATION CONFIRMATION MODULE MOD.: AE/SA-SE

Microprocessor-based unit designed to be used with the algorithmic fire detection panels of AGUILERA ELECTRONICA, to manage communications and monitor one digital input and output signal.

It allows an operation to be carried out and its performance confirmed. It is equipped with:

- § A relay output with voltage-free contacts that actuates an operation. The three contacts are provided, normally open, normally closed and common.
- § A digital input, to receive the operation confirmation signal. By means of a selector (SW2), idle mode control is selected as normally open or normally closed.

Selector SW2 on: In idle mode the input is closed.
Selector SW2 off: In idle mode the input is open.

The operation should be performed and confirmed in an interval programmed on the Algorithmic Panel.

This module is conceived for carrying out operations with firebreak doors, air conditioning dampers and opening valves.



It includes:

- Operation pilot: It indicates it is operating correctly, giving red-colored flashes through the status LED. The flashing frequency depends on whether the equipment is in idle or has an input activated. If the flashing were 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 detector is without power for a long period.

WIRING SCHEMATIC

Assembly

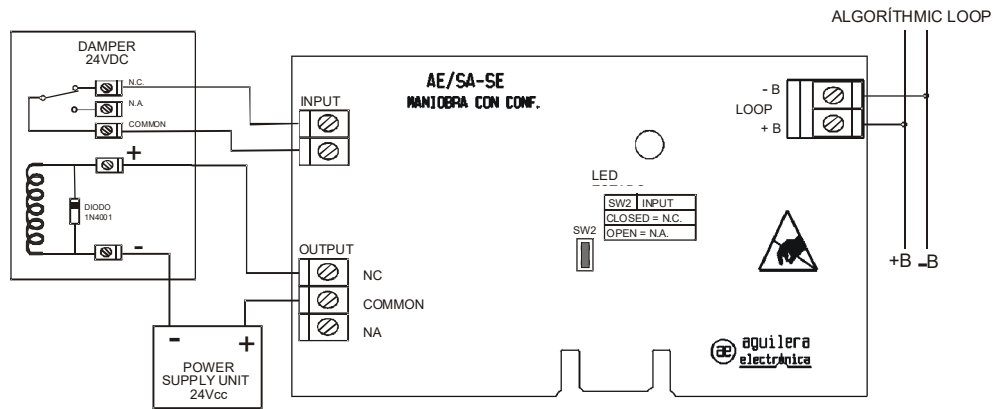
For the installation of the modules, open the module cover by pressing on its central part. Secure the module with 4 screws using the fastening holes foreseen for this purpose.

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.

Wiring example

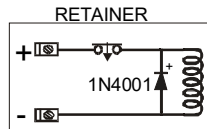


A damper has been shown that needs to be continually fed. If it is desired to connect a damper that needs voltage to close, the positive of the solenoid valve has to be connected to the normally open (NA) contact of the module output.

In this example we monitor the normally closed contact of the damper end of travel switch in idle mode. For this case it is necessary to configure the selector SW2 in the closed position = N.C., i.e. with the selector SW2 on.

WARNING:

Connection of the relay output of modules with inductive loads like for example door retainers or air conditioning gates, should be protected by means of a 1N4001 diode or similar. The connection of this diode should be carried out on the actual coil terminals. If the retainers have an unblocking pushbutton, the diode should be situated after the pushbutton, on the coil terminal posts.



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 detection system, and make sure that the automatic extinguishing tripping functions 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, provided 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 output by actuating the corresponding operation from the Algorithmic Panel. Check its activation in the module. The frequency at which the luminous indicator flashes will also increase.
- § Restore the output to the idle state. To reset the system, press the RESET key on the Panel.

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

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

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. (See the operating manual of the corresponding algorithmic panel).