ActiveMaintenance
User Manual

ActiveMaintenance is an application that allows users to monitor and control a security fogging device using a standard personal computer with Microsoft Windows 10 or above operating system. A Serial to USB cable with customized 6 way connector is needed to connect the fogging system unit to the PC.

Please contact your local distributor or unit supplier to purchase the correct cable (code: FPUCPAS).

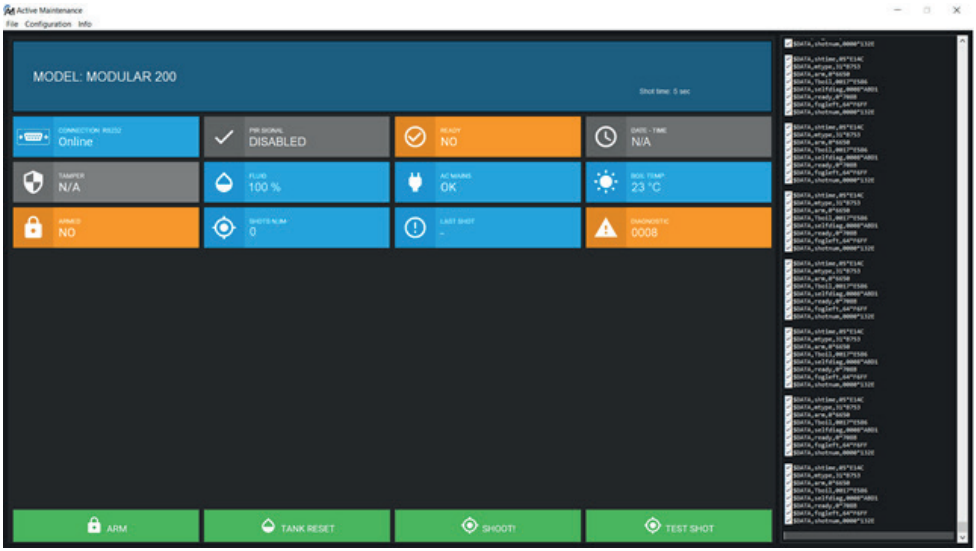
The ActiveMaintenance application was tested with latest Microsoft Windows releases.
As the connection is via PCB Master ComPort (usually COM1) if other devices are connected, temporary remove it.

Notes for release 1.0 :
Active Maintenance can work only on machines equipped with CPlus or Compact card, any version.

1 SETUP

1.1 CONNECTION

You can connect your PC to a fogging unit by using the Serial to USB cable.
Depending on the different models and PCB , locate the onboard 6 pins serial port and connect the cable.
Connect first the USB cable to a free PC port and then to the unit serial port taking care of the correct cable PIN 1 position. To avoid wrong cable connection the cable 6 pin connector has a polarized plastic key.
As soon as cable is connected the PC starts receiving data automatically from the device, it is always possible to manually send the Connect/Disconnect command selecting Connect/Disconnect from the File tab.



2 OPERATION

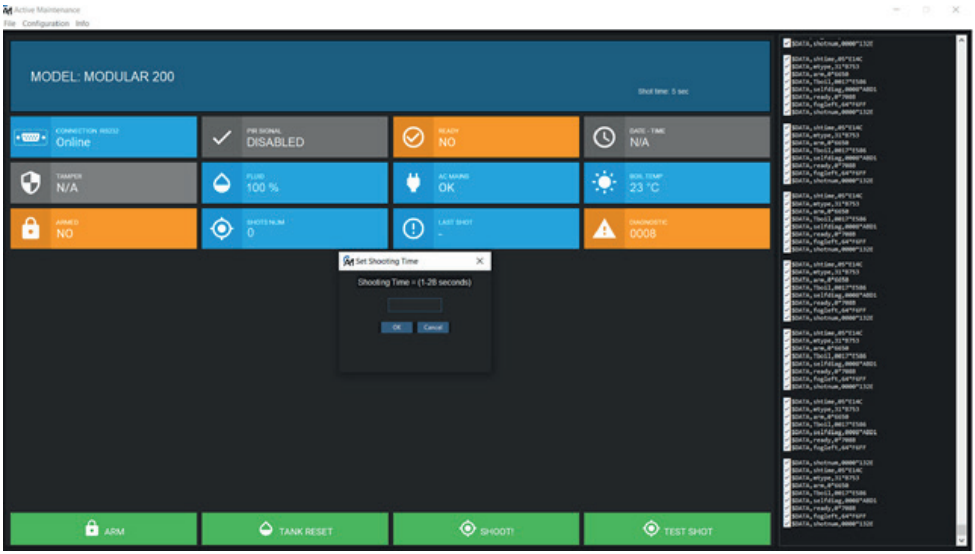
2.1 DASHBOARD

The Unit Dashboard is the home page of the ActiveMaintenance application.
It shows several widgets reporting the fogging unit's information, its current status and the actions you can perform.
The dashboard screen is virtually divided in 5 zones :

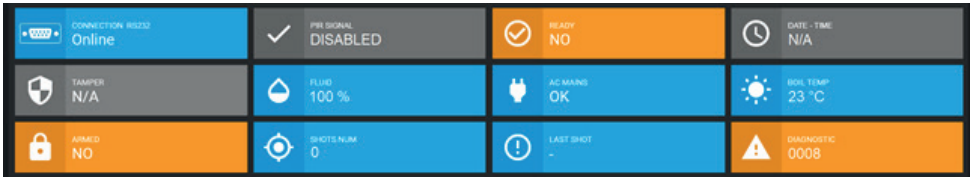
Zone 1:

In this section is reported the model name and the current setting for the fog flow duration. It is possible to set a new shot time pressing "Set Shot Time" in the Configuration tab.
A pop up window will be open allowing to change the value (in seconds).

Note that the maximum shooting time for the current unit is suggested, if the value entered exceed the maximum shooting time allowed the input is not accepted.
Even if it is possible to set any value in seconds is suggested not to define shot shorter than 4 seconds to ensure not to empty the fluid in intake pipe.



Zone 2:



This section describes the device status in analytic way, giving a report on the key topic information from the device.

Note: The range and style of status widgets displayed on the dashboard may change from one unit to another unit model, depending on the protocol version and other relevant information.

Status widgets also have color coding:

- Normal status is displayed in blue widgets.
- Missing data is shown as N/A and the widget is greyed out.
- Values that require attention are shown in orange widgets.
- Critical status or faults are shown in red widgets.

Widgets description :

CONNECTION RS232: Connection status - Online or Offline

PIR SIGNAL: if the unit controls a local PIR sensor to have a further shot confirmation, the tab reports the status and the activation of the sensor. This function can be used during installation to have correct information of PIR location/range. If no PIR support is installed the tab will be in grey color.

READY: it is the report for unit ready to generate fog. If temperature is not in range or unit is not armed the ready signal will be temporary in orange color.

DATE – TIME: current Date and Time on the unit. Note that this information is valid for C-plus boards with RTC functions.

TAMPER: Where supported, it reports is the unit is opened (void).

FLUID: where supported, it reports the percentage of fluid left in the unit. If the reset button is pressed on the unit or the tank reset command is sent to the unit, the value is setted to 100%.

AC MAINS: It there is a power fail and the unit is operated by the backup battery, the error is reported in red.

BOIL TEMP: is the thermal report in C° of the temperature read from thermocouple(s) on the heating element.

ARMED: it reports if the unit wait just for shot command to start generating fog .It is mandatory to ARM unit before sending the shot command.

SHOTS NUM: it is the unit shot counter increased each shot. This value cannot be cleared.

LAST SHOT: reports date and time of the last shot operation, it reports also if the shot was successfully executed or not (red tab).

DIAGNOSTIC: in the diagnostic tab it is reported the diagnostic code for the current error/fault. Clicking on the triangle a pop up windows opens listing the issue reported and possible solutions.

Note: depending on the unit models and protocols used in the unit, the widget can be different. Please refer to unit manual for further informations.

Zone 3:

This zone is available only for units equipped with C-plus board.
It is possible to have a detailed information of the configuration DIP switch and of the jumpers installed on the PCB with the description of the related functions.

Zone 4:

The section at the bottom contains action widgets:

Arm / Disarm: activate or deactivate the fog generator device.

Tank Reset: reset the tank level to full, required after any fluid tank replacement.

Shoot!: request the unit to perform a full shot, with programmed duration.

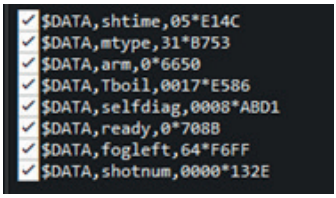
Test Shot: request a test shot, with a fixed short duration, to verify fog generation efficiency.

Action buttons are enabled (green) or disabled (light green) depending on the unit status.

Note: Disarming a unit during shot in progress will immediately stop the fog flow.

All actions will not require a further confirmation from the user and will be immediately executed.

Zone 5:



On the right side of the dashboard it is reported with vertical scroll the raw data communication between the fogging system and the PC serial port.
This section is intended as a deep debug tool giving the values to be reported on request to the technical authorized service.

2.2 CONFIGURATION

The Unit Configuration tab shows the available settings for configuring the unit. The configurable settings are:

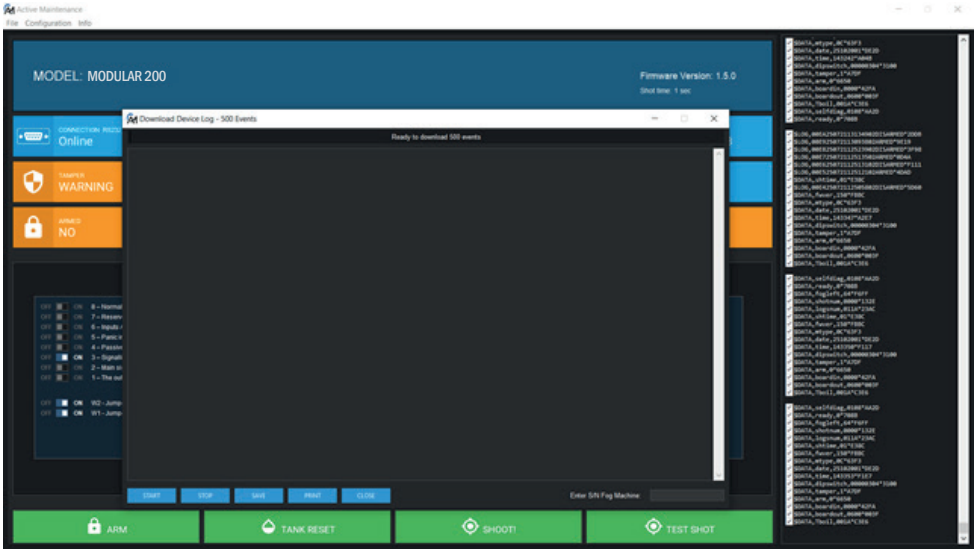
- **Shooting Time**: program the fog generator shot duration (in seconds).
- **Clock Settings**: set the current date/time for the internal clock (some units have a separate coin battery to maintain the clock even when the unit is powered off, the other units maintain the clock using the backup battery).

The Clock Settings require a C-Plus board to be executed, this option is not available on different PCB.

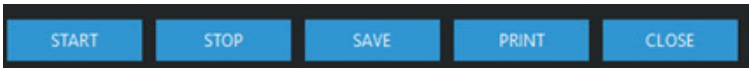
2.3 EVENT LOG

The Unit Event Log shows a chronologically ordered list of maximum 500 events, starting with the most recent, recorded by the fogging device (only available on C-plus equipped models).

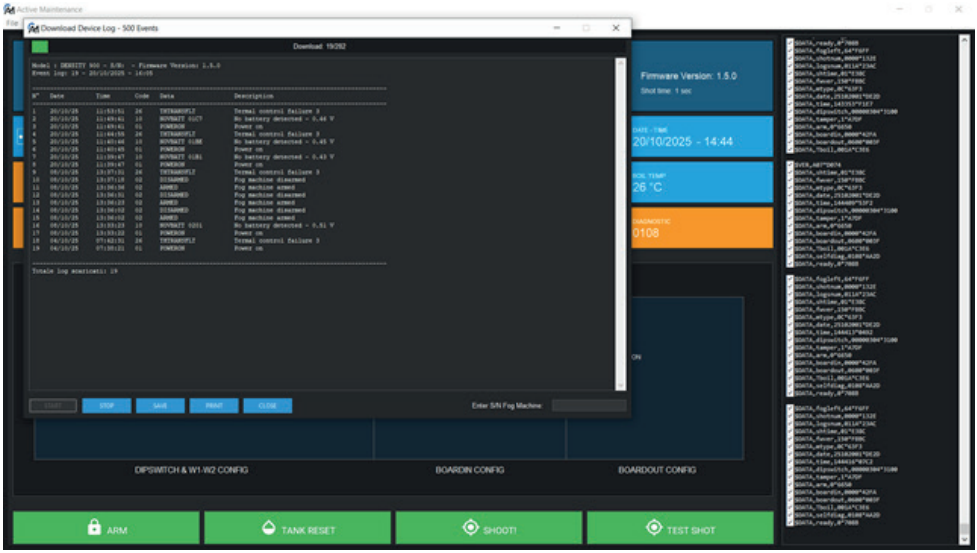
In Configuration Tab click on Read Log File. A pop up windows will open showing the command console for log file.



On the console it is possible to execute 5 different commands:



START: reads unit memory and extract logged events. On the top of the console window it is possible to see the total log number.



The events are listed with :

Event number: 1 to 500

Event Date: in format DD/MM/YY

Event Time: in format HH/MM/SS

Event Code: unique event identifier (the range of possible events may change between models).

Event Data: event data stored.

Event Description: detailed information about the event stored.

STOP: stops memory reading.

SAVE: allow to download events on PC to a CSV format file.

PRINT: Print logged events.

CLOSE: console ends.

ACTIVE
MAINTENANCE