



SYSTEMS TYPE “E1” AND “E” startup operations

It is advisable to put on the front panel of the PAN-705M Control Panel the “NOT PRESENT” labels positioned on the missed components, e.g. DET 2 or DET 4, etc. (see page DESP 13).

- 1) Check that the electrical connections are correct.
Do not open the water supply.
- 2) Apply voltage. The POWER LED will light on. All other LEDs should be off. The sound alarm should not sound and the solenoid valve should be de-energized and closed.
The STOP circuit (duct valve and/or fan stop) should be off.
- 3) Execute the TEST operation. A pulse on the TEST button simulates a spark.
The detectors turn active for 3 sec. The EXTINGUISHING DET and the MONITORING DET LEDs light on for 3 sec. When alarm stops DET LEDs blink.
The STOP LED lights on permanently and will require the RESET button to turn off.
The WATER FLOW LED stays off.
The sound alarm sounds permanently and can only be stopped by the RESET button.
The nozzle does not spray because the water supply is closed.
The duct valve and/or fan stop relay (STOP circuit) are permanently activated and can only be reset by the RESET button.
Press the RESET button to switch off all the LEDs and sound alarm, and to de-activate the STOP circuit.
Remember that detectors are inactive for about 3 seconds after power voltage is applied (power-on delay).
- 4) Open the water supply. Check pressure: should be 3-4 bar at least.
- 5) Repeat the TEST sequence as per point (3). Check that the WATER FLOW lamp comes on for 3 sec while the nozzle sprays. When alarm stops DET and WATER FLOW LEDs blink, STOP LED is on permanently.
- 6) Press the RESET button to switch off all the LEDs and sound alarm, and to de-activate the STOP circuit.

To check the sensitivity of detectors, remove them from the mounting frame and direct the front window to a light or a cigarette lighter. In this way each detector can be tested in turn, checking that the system is correctly installed.

List of possible malfunctions:

- 1) **The detector fails to operate with TEST.**
Check the 24Vdc voltage on the + and - terminals of the detector and the 24Vdc voltage pulse on the T+ and - terminals when pressing the TEST button.
If voltages are correct, the detector is faulty.
- 2) **The detector is permanently in alarm.**
Check the 24Vdc voltage on the + and - terminals of the detector and control panel. If it is correct, and provided that no light falls on the detector window, the detector is faulty.
If the voltage is incorrect or unstable, maybe the control panel is faulty. The detector circuits could generate alarm signals in response to intermittent power voltage, even if the power-on delay will eliminate most of this problem.
- 3) **The WATER FLOW LED is permanently on and the sound alarm sounds, while all other LEDs are off.**
This signals a water leak in the solenoid valve due to rubber diaphragm being jammed by dirt or having a malfunction.
Close the water supply and check. If necessary, open the solenoid valve body.
- 4) **One or more LEDs do not blink after an alarm.**
Check that the corresponding switches, positioned on the front panel circuit, are in "on" position (DIP switch 1-2-3-4 = DET 1-2-3-4, DIP switch 5 = WATER FLOW).

Notice

The detector is very sensitive. Movements of lights or sun light penetrating through openings in the duct may cause false alarms.