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# SYSTEMS TYPE “A” AND “B” 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, DET 3, DET 4, etc. (see page DESP 13).

1) Check that electrical connections are correct.
   Do not open water

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.

3) Execute the TEST operation. A pulse on the TEST button simulates a spark. The detectors turn active for 3 sec.
   The EXTINGUISHING DET LEDs light on for 3 sec, when alarm stops they blink.

   The WATER FLOW LED stays off.
   The sound alarm sounds for 3 sec.
   The nozzle does not spray because the water supply is closed.
   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). While the nozzle sprays, be sure that water really flows by observing the manometer or, if flow switch PAC-846 is provided, observing the WATER FLOW LED lighted for 3 sec. on the control panel. When alarm stops DET and WATER FLOW LEDs blink.

6) Press the RESET pushbutton to reset the alarm memory and bring the LED signals back to the stand-by state (LEDs turn off).

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 +/- 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 +/- terminals of the detector and power supply unit. 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 power supply unit 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** (when flow switch PAC-846 is installed) 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 trough openings in the duct may cause false alarms.