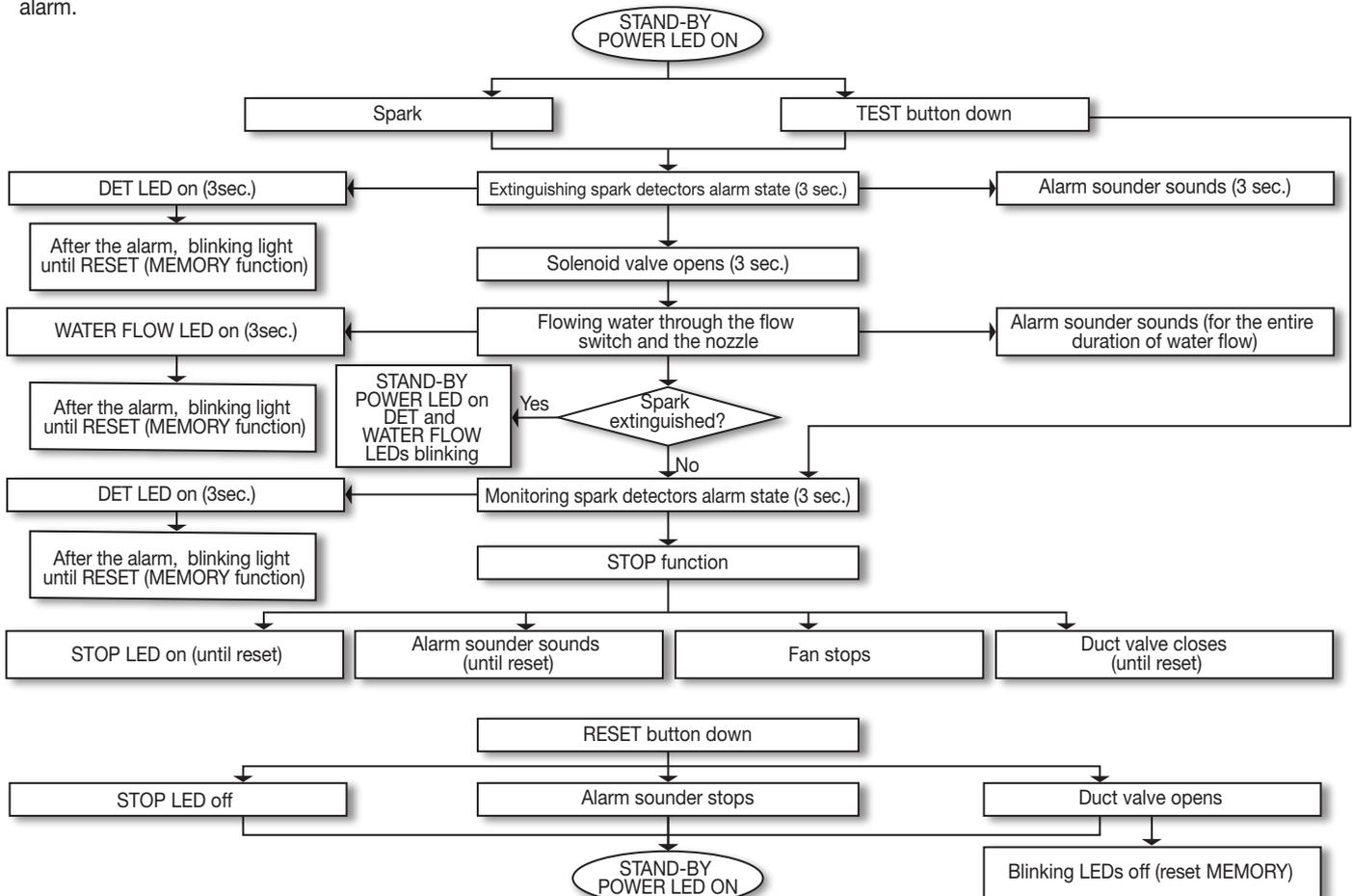




## SYSTEMS TYPE “E1” AND “E” general functions

- **OVERLOAD/SHORT CIRCUIT YELLOW LED**  
 Indicates overload or short circuit. Check electrical connections and push the white slide switch of the thermal circuit breaker (TCB) to resume normal operation.
- **REVERSE POLARITY RED LED**  
 Indicates reverse polarity. Disconnect and reverse power supply connections.
- **POWER GREEN LED**  
 Indicates the presence of the 24Vdc power voltage. Must always be on.
- **EXTINGUISHING DET 1 RED LED**  
 Steady light indicates that the extinguishing spark detector DET 1 is in alarm state (standard time 3 sec at each spark detected), blinking light (until manual RESET) indicates that there was an alarm.
- **EXTINGUISHING DET 2 RED LED**  
 Steady light indicates that the extinguishing spark detector DET 2 is in alarm state (standard time 3 sec at each spark detected), blinking light (until manual RESET) indicates that there was an alarm.
- **WATER FLOW BLUE LED**  
 Operated by the nozzle flow switch, indicates a water flow in the spray nozzle during an extinguishing operation, or else a water leakage through a defective solenoid valve. It lights up with a steady light during extinguishing and in case of water leakage due to valve defective, blinks until manual RESET to signal that there was an alarm.

- **MONITORING DET 3 RED LED**  
 Steady light indicates that the monitoring spark detector DET 3 is in alarm state (standard time 3 sec at each spark detected), blinking light (until manual RESET) indicates that there was an alarm.
- **MONITORING DET 4 RED LED**  
 Steady light indicates that the monitoring spark detector DET 4 is in alarm state (standard time 3 sec at each spark detected), blinking light (until manual RESET) indicates that there was an alarm.
- **STOP RED LED**  
 Indicates an alarm for un-extinguished spark and stop circuit activated. This LED lights together with MONITORING DET LED but it turns off only when the RESET button is pressed.
- **TEST BUTTON**  
 Used to check the system.  
 A short pulse causes a spark to be simulated inside the detectors, that will go in alarm state: they will activate the alarm sounder, will cause the EXTINGUISHING DET, MONITORING DET and STOP LEDs to light on and will stop the fan.  
 The WATER FLOW LED is controlled by the flow switch and will therefore light only if water flows through the nozzle. This LED doesn't turn on only in case of malfunction (jammed nozzles, solenoid valve closed).  
 If during the test do not turn on one or more DET LEDs, the related detectors are not connected or are faulty.
- **RESET BUTTON**  
 Resets the memory, switches off the STOP LED, turns off the sound alarm and opens the stop circuit.  
 The system returns to normal operating conditions.



### Warning!!!

Fast impulsive electromagnetic noise in the factory can cause false alarms. To avoid them we suggest to take a few measures during wiring of spark detectors such as good ground connection of metallic parts and of shields of shielded cables and to keep separate 24Vdc wiring from higher voltage wiring (A. C. power line). If possible, run wiring through metallic tubing. Keep spark detectors wiring physically separate from other wiring (motor controls and other high power loads). For further information see note on false alarms on pages MASP26 and following.