REQUIREMENTS SPECIFICATION





SECURED IN SECONDS

Fog Cannons - General Information

1. Device requirement:

- \Box The device in question is a fog cannon that must fill a _____ m³ room with fog in less than one minute in accordance with EN 50131-8/IEC 62642-8.
- □ Points 2, 3, 5, 7 are minimum requirements!

2. Function:

- □ Fog output in 1 minute _____ m³ with the option of a pulse function to guarantee longer coverage of the primary area
- □ The fog cannon must be able to emit several times (> 3)
- □ The fog cannon must be tested in accordance with EN and / or VDS
- □ No pressurised tank (explosion protection)
- Doesn't contain ethanol (solvent)
- □ No fan (noise pollution)

3. Mechanics:

- □ Length = _____ width = _____ mm
- Operational weight: _____ kg
- □ The housing/cabinet must be made of steel
- □ It must be possible to install it at a height, in any position (protection pls. ad: apart from upside down against vandalism)
- □ A suitable tool must be provided when installed overhead on the ceiling, (accident prevention regulations risk area 1)
- □ It must be possible to install several different nozzles with varying output directions

4. Options for mechanical system:

- □ A nozzle extension is required to enable fog to be emitted through a wall
- Protection against vandalizing the nozzle is required

5. Electronics:

- □ The inputs and outputs must be galvanically isolated (min. 600V) (fire hazard)
- □ A power supply of at least 9V for consumers (short-circuit proof) for at least 100mA (for remote detectors) must be available
- □ A battery monitor is required (test every 24h) and in the event of a fault it must also be transmitted to an output (relay or transistor output)
- □ It must be possible to display the status of the device for monitoring purposes via software or the internet
- □ It must be possible to update the firmware without changing the chip
- □ A status display must be visible on the circuit board. Any fault is specifically described on the display or different LEDs
- □ The device must have a CE marking
- □ It must be possible to replace the entire electronics without dismantling the device on site (potential follow-up costs in operation)
- □ It must be possible to integrate the signals of a fire alarm system
- □ It must be possible to pass on any activation to the fire alarm system
- □ There must be an event log (comprising at least the last 50 events)
- □ There must be mechanical protection against overheating that cannot reset itself (fire hazard)
- □ The electronics must be upgradable (to protect future investments)

6. Electronics options:

- □ There must be an optional IP input
- □ There must be an optional separate overflow input
- Different emission times must be possible via separate inputs
- □ It must be possible to display several fault-specific outputs
- □ It must be possible to integrate optional artificial DNA (tag the offender)
- □ It must be possible to connect the devices in series, with a central display in plain text in the event of a fault so that a security officer can respond
- □ Optional RS485 card to enable simplified connection to an alarm system

7. Software:

- □ It must be possible to read out all parameters to evaluate the status of the device
- □ It should be possible to read out the following: Operating status of inputs, battery status, operating time, temperature of heater, power consumption of external consumers (if at the limit of the power supply)
- Display of event log including time and date

8. Optional software:

- □ It must be possible to read out status both uni-directionally and bi-directionally via IP uni-directionally is only possible when a "cloud" is available or supplied
- U With bi-directional data transmission, everything must be readable as if on site. This of course includes testing from a distance
- □ With a cloud solution (uni-directional), the device cannot be addressed from outside. Therefore, the following must be possible in the cloud: An email to several people must be generated whenever a status changes, there must be a type of "map" for technicians, everything must be documented and protected with different passwords according to level
- □ The IP must be API-approved (after NDA signature)

9. Connectivity options

- □ It must be possible to connect up to 16 devices in series via a central unit or wirelessly
- □ This central unit should also be able to make different group allocations
- □ The unit must have plain text in order to inform a responsible person on site
- □ A wired/wireless combination must be possible
- □ The unit must have galvanically isolated inputs
- □ The outputs must also be galvanically isolated
- □ An IP interface for new communication channels is important
- □ It must have menu-driven software that can display device faults individually
- □ It must have its own realtime clock
- □ The connected devices must be easy to read in and easy to delete
- □ It must be possible to transmit an acoustic alarm (beeper)
- □ Remote access must be password protected
- □ It must be possible to briefly trigger the units individually on site or via a network for a test
- □ It must be possible to control the machine's relay outputs individually for test purposes
- □ It must be possible to centrally lock the connected devices for servicing purposes using this unit (no inadvertent activation)
- □ The IP must be selectable, static or DHCP

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