



## JK e-solutions ApS

FS 12

Control and Monitoring system for  
Fixed Aerosol Fire Extinguishing Systems

Test Device

R2



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## 1. Preface

This document is the manual for the Test Device for FS12 – Control and Monitoring System for Fixed Aerosol Fire Extinguishing Systems.

### 1.1 Purpose

The purpose of this document is to describe in short terms the use of the test device for the FS12 system. Installation and service for the FS12 system itself is described in the FS12 Installation Manual.

## 2. Description

The purpose of the Test Device for the FS12 system is to ease test of the FS12 system after installation has been completed. The FS12 Test Device replaces the light bulb typically used for testing. The FS12 Test Device provides an easier and safer display of the test result than the short flash emitted by the light bulb.

## 3. Overview

The FS12 Test Device is shown below:



### 1. On/Reset/Battery test button

When the button is pushed, the test device turns on and make a lamp test (if not already on) and resets the indicators. Furthermore, it will measure the battery voltage when the button is pressed.

Push 1 sec for battery test.

Push 4 sec to turn OFF, If the test device is disconnected it will turn off by

itself after 30 minutes.

## 2. Power On indicator

The power on indicator (green) is on when the Test Device is on.

## 3. Test current indicator

The test current indicator (green) lights up shortly when the test device measures the test current generated by the FS12 sub-unit. This is normally once per second.

## 4. Activation OK indicator

The Activation OK indicator (orange) turns on when a valid activation pulse is measured by the test device. The Activation OK indicator will remain lit until the Test Device turns off or the On/Reset button is pressed.

## 5. Low battery indicator

The Low battery indicator (yellow) turns on when the batteries are near end of life. Please replace batteries at the earliest convenient time.

## 6. Fault indicator

The Fault indicator (red) turns on if the Test Device measurements differs from the expected output from the FS12 sub-unit. The Fault indicator will remain lit until the Test Device turns off or the On/Reset button is pressed.

## 7. Cable for sub-unit

Cable for connection to the sub-unit. When used with sub-unit var. A with direct cable connection, please observe polarity when connecting the cable to the sub-unit. The cable must be mounted with the positive (brown) wire pointing to the loop 2 connector.

## 4. Test procedure

### 4.1. Testing the installation

All FS12 installations must be tested to verify that activation of aerosol generators is possible. The aerosol generators will not actually be activated, but the installation's ability to do so will be verified by connecting the test device to the aerosol generator terminals in the subunit(s).

**Remember to disconnect** the aerosol generators before performing an installation test!

- Turn off both power supplies to the FS12 main unit.
- Disconnect all aerosol generators
- Connect FS12 test devices instead of aerosol generators to all sub-units.
- Turn on both power supplies  
(The FS12 test devices turn on automatically when FS12 system is turned on)
- Verify that "System OK" is indicated on the front panel of the FS12 main unit.
- Verify that the "ON" is indicated, and "TESTING OK" indicator is flashing on all test devices.
- Flip the cover of the activation button in the FS12 main unit.
- Turn the activation button on the FS12 main unit.
- Verify that the ventilation in the protected area is turned off.
- Verify that all installed aerosol release warning alarm devices are activated.
- Verify that the FS12 main unit internal buzzer is bleeping (1.9) and that the FS12 main unit "System released" indicator (1.2) is flashing.
- Wait the time specified as the "activation delay" during installation (default is 30 seconds).
- Verify that the internal buzzer (1.9) is permanently on and that the "System released" indicator (1.2) is permanently on in the mFS12 main unit.
- Verify that the "RELEASED" indicator is lit on all test devices.
- Verify that the ventilation in the protected area can be restarted by pressing the "Restart ventilation" button on the FS12 main unit.
- Turn off both power supplies to the FS12 system.
- End of test.