

From
ST-FIR/MKP3Our Reference
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14 Juli 2015
No. 01**Report**

Issue 01
Topic **TI 1943/2015 Firmware release 1.0.53 LSN0300/LSN1500**
Checksum: 7AED73F3 (Range:00000--0FFFFFF)

Description Release Note

Scope of the Release***Implementation: Restricted detector Removal***

In TTAP- configurations, smoke detectors are allowed to be removed, if they are **not** located on the main loop or main stretch and, if they are end elements in TTAP-Stubbs.

Removed end elements do not start the error handler, so that there is no trial to recover the LSN bus. Activated sounders remain on during the detector removal.

Features and restrictions:

- 1) The detection time of a removed element is approximately 10 seconds.
- 2) It is allowed to remove elements at the same time
- 3) Removed elements are set to trouble at the Fire panel.
- 4) Detector removal in the LSN bus initialisation phase will (re)start the error handling (detached elements).
- 5) Removed detectors are indicated latest 10seconds after the last element has been removed.
- 6) In a two-stub configuration, it is allowed to remove elements on both stubs at the same time. No error handling will be started
- 7) In a configuration with two stubs where one stub has a disruption (short or cut on the line) and the other has removed elements, the error handling would also affect the stub with the removed elements. This is because the bus initialization that is necessarily part of the error handling of a disruption will always operate on the full bus, be it a loop or two individual stubs.

Activated sounders would be switched off because of a complete LSN recovery.

1 Bugfixes***Ground-Fault to LSNb and bus disruption at a connector at the same time***

Bug description: If a ground fault to a connector (LSNb) and an additional bus disruption occur at the same time, there was only a loop fault indication but no fault of the elements located between bus disruption and ground fault.

This bug is removed.



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Bug Fix LSN 300 module: Ground fault handling and LED flashing:

Ground fault handling

The implemented detection algorithm is based on a multi- bus-initialization approaching the ground fault position step by step with a ground fault measure between two initializations.

Because of a bug in the algorithm the ground fault detection probability is only 70% in SW version V1.0.50.

The detection probability is depending on the current loop side feed, the number of installed LSN elements and the location of the ground fault.

In version V1.0.52 the bug is removed, the new approaching algorithm guarantees a save ground fault detection for all installations at every bus position.

LED Flashing

A bug in the detector LED flashing control can prevent that all LEDs stop flashing if switched off at a reset request. One or maximal 2 LEDs can remain flashing. The bug probability is 5%. In version V 1.0.52 this bug is removed.

Additional Hint

SW version V1.0.51 with a timing change in the single step mode was only applied in the LSN1500 module for the LSNi test tool. In version V 1.0.52 the timing change is implemented in general to get a uniform SW version, although there is no application for the normal operation mode in both modules.

The timing change is for the LSNi test tool only.