
SYSTEM VERSION 1.0

ABB Ability™ System 800xA - Release Notes

Device Management

FOUNDATION™ Fieldbus LD 810HSE Ex





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Table of Contents

- 1 Introduction**
- 2 Safety Notices**
- 3 Functionality Changes**
 - 3.1 Version Designation 11
 - 3.2 Features of LD 810HSE Ex 11
 - 3.3 Features of LD 810HSE Ex 12
- 4 Restrictions**
- 5 Product Support**
- 6 Fixed Problems**
- 7 Known Problems**
 - 7.1 Operational 19

1 Introduction

These release notes describe the FOUNDATION™ Fieldbus Linking Device LD 810HSE Ex, Version 1.0, for non-hazardous or hazardous areas of Zone 2/Division 2. Additional information regarding this product is available in the MyABB portal (<https://myportal.abb.com/home>). For commissioning and operating of LD 810HSE Ex, refer to the User Manual (2PAA114135-610). To obtain the User Manual, search for the document number 2PAA114135-610 in the MyABB portal.

Known problems are divided into the following categories:

- Installation
- Administration
- Configuration
- Operational
- Instruction Manual Changes
- Miscellaneous

2 Safety Notices



Failure to follow all warnings and instructions may lead to loss of process, fire, or death. Thus, heed all safety information both in this document and in the User Guide (refer to 2PAA114135-610).



Read these Release Notes on high priority before attempting to install, operate, or maintain this product or its firmware.

Install the Linking Device according to user manual *FOUNDATION Fieldbus LD 810HSE and LD 810HSE Ex* (2PAA114135-610), Section 2 *Hardware Installation*. The Linking Device and its firmware are designed to be operated within the specifications of System 800xA. Do not install the Linking Device to systems that exceed these limits.

Follow your company's safety procedures. In addition, follow a Defense in Depth strategy to ensure security (see the User Manual for details).

These Release Notes are written only for qualified persons and are not intended to be a substitute for adequate training and experience in the safety procedures for installation and operation of this product or its firmware. Personnel working with this product or its firmware must also exhibit common sense and good judgment regarding potential hazards for themselves and other personnel in the area. For clarification or additional information, refer to your ABB sales representative and/or local representative.

File these Release Notes with other instruction books, drawings, and descriptive data of the 800xA system. Keep these release notes available for the installation, operation and maintenance of this product or its firmware. Use of these release notes will facilitate proper operation and maintenance of the 800xA system and its software and prolong its useful life.

All information contained in release notes are based on the latest product information available at the time of printing. The right is reserved to make changes at any time without notice.

3 Functionality Changes

3.1 Version Designation

This is the first launch of FF LD 810HSE Ex. Hence, no restrictions with different articles apply.

Table 3.1: Hardware Versions

Device Type	Article Number	Hardware Version	Firmware Version ¹
LD 810HSE Ex	3BSE079522R1	1.0	V1.20.01.5478

1. This firmware version is only released for the corresponding system environments as listed in *LD 810HSE Ex Version Table*, which is available on the my ABB portal. See also section *Restrictions* in the User Manual.



You can look up the hardware version and the article number of the device on the type plate.



In contrast to LD 800HSE Ex, the LD 810HSE Ex requires 10 mA from each H1 cannel.



Do not combine different module types in redundant pairs, i.e. do not combine a Linking Device of type LD 810HSE Ex with other types such as LD 800HSE or LD 800HSE Ex.

3.2 Features of LD 810HSE Ex

The LD 810HSE Ex is a gateway between an FF High Speed Ethernet (FF-HSE) subnet and FF-H1 links. It supports device redundancy. The Linking Device is registered as class 42c of the HSE profile, therefore providing the following functions:

- It supports up to four separate galvanically isolated FF-H1 links. In each of these links, the Linking Device operates as Link Master as well as SM Time Publisher.
- Identification of devices connected to the H1 links

- Configuration of connected H1 devices through System Management and Network Management via HSE
- Access to the function blocks of connected H1 devices via HSE
- Republishing of process data between H1 links
- Republishing of process data from H1 to HSE and vice versa
- Distribution of alarms and events sent by H1 devices

3.3 Features of LD 810HSE Ex

- Certified for decentralized installation in hazardous areas Zone 2 / Division 2
 - cULus Class I, Division 2, Groups A, B, C, D
 - IECEx Ex nA [ic] IIC T4 Gc
 - ATEX II 3G nA [ic] IIC T4 Gc

The Ex protection method [ic] corresponds only to the FF-H1 fieldbus interfaces.
- G3 coated and tested according to ANSI/ISA-S71.04 G3 for installation in environments with corrosive gases.

4 Restrictions



Before commissioning of LD 810HSE Ex, make sure to use the latest linking device firmware released for your system environment. It is required that all applicable rollups for your system are installed either previously or at the same time this firmware is installed. Refer to *LD 810HSE Ex Version Table*, which is available in the my ABB portal, to find out the latest linking device firmware released for your system environment.

5 Product Support

Contact ABB technical support or your local ABB representative for assistance in reporting the problem.

6 Fixed Problems

No problems are fixed in firmware version V1.20.01.5478.

7 Known Problems

7.1 Operational

The following table lists the issues that may exist and affect the operation of the system or product at the time of release. Workarounds, clarifications, or helpful hints have been provided for each issue wherever possible.

Table 7.1: Operational Issues

Issue	Workarounds, Clarifications, and Helpful Hints
The following communication ports of the Linking Device are in open/filtered state and thus need to be protected at all time: <ul style="list-style-type: none">• Port s0/UDP• Port 1027/UDP• Port 1028/UDP	A Defense in Depth strategy must be followed to ensure security. Implement a firewall to close unused communication ports. See the User Manual for details.

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