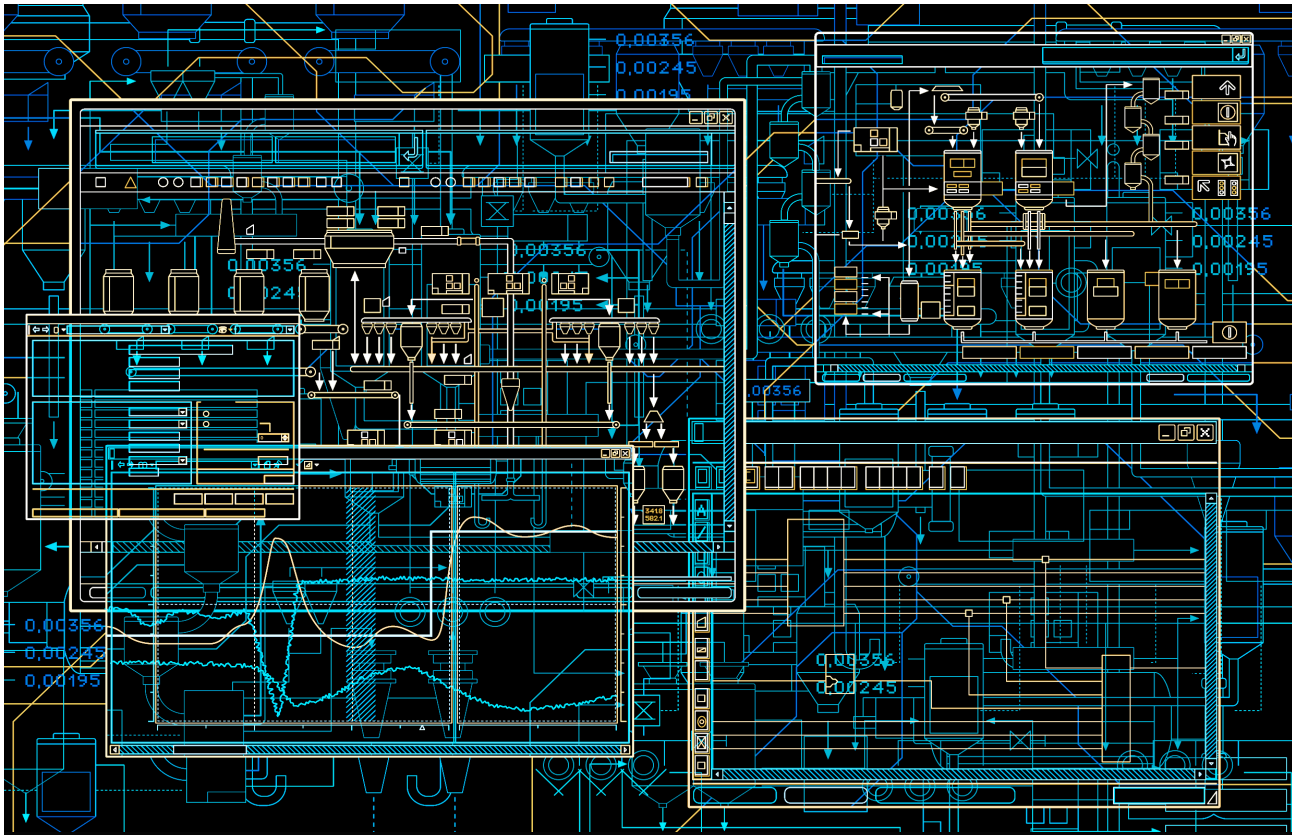


Device Management

FOUNDATION Fieldbus Linking Device, LD 800HSE and LD 800HSE EX, V3.6.0/0

Power and productivity
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Safety Summary (continued)

GENERAL WARNINGS

Equipment Environment
All components, whether in transportation, operation or storage, must be in a noncorrosive environment.

Electrical Shock Hazard During Maintenance
Disconnect power or take precautions to insure that contact with energized parts is avoided when servicing.

Installation in Hazardous Locations
For general requirements on installation, rules for installing, commissioning, maintaining and the appropriate use of LD 800HSE EX in hazardous atmospheres, See page 25 and See page 125.

The present manual does not supersede the relevant national regulations, standards and directives. These must be observed and have to be applied according to the national conditions.

Safety Summary (continued)

SPECIFIC CAUTIONS	In a redundant set of linking devices, removing the power supply, the Ethernet cable from the Primary Device causes a redundancy change-over. Before doing so, make sure that the Secondary Device is operational (and not still booting due to a prior change-over). Otherwise the system breaks down or the configuration information might get lost. Therefore wait at least one minute between such checks. See page 44 In case of removing the RS-232 cable only, redundancy is being lost but no redundancy switch-over is done. Make sure that the RS-232 cable is connected before plugging in the power terminal block. If the replaced linking device is powered while the serial link is missing, it will behave like an independent, non-redundant Primary Device. If in this case the linking device has a valid (possibly unknown) configuration, it might use H1 node addresses which are already in use on the H1 links. This will disturb or interrupt communication and application processing on the H1 links. See page 45 Before connecting the linking device to your LAN network, make sure that its IP address is not used by another network station. See page 50

SPECIFIC CAUTIONS	After a firmware update (flash memory update), all FF configuration data will be lost, but the IP configuration is still valid. See page 66 Make sure that in your configuration the maximum number of republished signals per second per H1 link is not exceeded. See page 99 Detecting a loss of an H1 connection between the Primary Device and the entire H1 link requires that at least two H1 devices have been connected to that H1 channel of the linking device and have appeared in the H1 Live List before the loss of the connection occurs. See page 114 Only one of the listed faults may be present at a time. Another fault cannot be tolerated until the redundant set has been repaired and a fully operational Secondary Device is available. See page 115

About this User Manual



Any security measures described in this User Manual, for example, for user access, password security, network security, firewalls, virus protection, etc., represent possible steps that a user of an 800xA System may want to consider based on a risk assessment for a particular application and installation. This risk assessment, as well as the proper implementation, configuration, installation, operation, administration, and maintenance of all relevant security related equipment, software, and procedures, are the responsibility of the user of the 800xA System.

This user manual describes the hardware installation, configuration, and handling of FOUNDATION Fieldbus Linking Device LD 800HSE; non-hazardous (LD 800HSE) and for hazardous areas (LD 800HSE EX). The configuration, handling, and functionality is same for both versions. Hence, they are commonly referred to as LD 800HSE throughout this manual. In case of specific considerations for hazardous areas LD 800HSE EX is explicitly stated.

The reader should have a basic understanding of the FOUNDATION Fieldbus system architecture and communications protocol.

User Manual Conventions

Microsoft Windows conventions are normally used for the standard presentation of material when entering text, key sequences, prompts, messages, menu items, screen elements, etc.

Warning, Caution, Information, and Tip Icons

This User Manual includes Warning, Caution, and Information where appropriate to point out safety related or other important information. It also includes Tip to point

out useful hints to the reader. The corresponding symbols should be interpreted as follows:



Electrical warning icon indicates the presence of a hazard that could result in *electrical shock.*



Warning icon indicates the presence of a hazard that could result in *personal injury.*



Caution icon indicates important information or warning related to the concept discussed in the text. It might indicate the presence of a hazard that could result in *corruption of software or damage to equipment/property.*



Information icon alerts the reader to pertinent facts and conditions.



Tip icon indicates advice on, for example, how to design your project or how to use a certain function

Although Warning hazards are related to personal injury, and Caution hazards are associated with equipment or property damage, it should be understood that operation of damaged equipment could, under certain operational conditions, result in degraded process performance leading to personal injury or death. Therefore, fully comply with all Warning and Caution notices.

Terminology

A complete and comprehensive list of terms is included in *System 800xA System Guide Functional Description (3BSE038018*)*. The listing includes terms and definitions that apply to the 800xA System where the usage is different from commonly accepted industry standard definitions and definitions given in standard dictionaries such as Webster's Dictionary of Computer Terms.

The following is a list of terms associated with the FOUNDATION Fieldbus Linking Device LD 800HSE that you should be familiar with. The list contains

terms and abbreviations that are unique to ABB or have a usage or definition that is different from standard industry usage.

Term	Description
FOUNDATION Fieldbus	FOUNDATION fieldbus is a bi-directional communications protocol used for communications among field instrumentation and control systems.
Fieldbus Foundation	The Fieldbus Foundation is a consortium of leading controls and instrumentation suppliers throughout the world. Its purpose is to accelerate development and acceptance of a single, open, interoperable fieldbus specification, as well as hardware and software technology for companies that wish to implement it in their automation products.
Industrial IT	Industrial IT is ABB's solution, that creates a business enterprise where your plant automation, asset optimization, and collaborative business systems are seamlessly linked in real time.

Released User Manuals and Release Notes

A complete list of all User Manuals and Release Notes applicable to System 800xA is provided in *System 800xA Released User Manuals (3BUA000263*)*.

System 800xA Released User Manuals (3BUA000263)* is updated each time a document is updated or a new document is released. It is in pdf format and is provided in the following ways:

- Included on the documentation media provided with the system and published to ABB SolutionsBank when released as part of a major or minor release, Service Pack, Feature Pack, or System Revision.
- Published to ABB SolutionsBank when a User Manual or Release Note is updated in between any of the release cycles listed in the first bullet.



A product bulletin is published each time *System 800xA Released User Manuals (3BUA000263*)* is updated and published to ABB SolutionsBank.

The following is a listing of documentation related to LD 800HSE .

Category	Title	Description
Hardware	Data Sheet FOUNDATION Fieldbus Linking Device LD 800HSE 3BDD011675	This manual contains technical data of the linking device LD 800HSE.
	Release Notes FOUNDATION Fieldbus Linking Device LD 800HSE 3BDD011679	This document provides information not contained in the ordinary manuals, sales information or other types of product information for the linking device LD 800HSE. It describes known software or documentation problems and errors that were discovered at too late a date to be included in the current user instructions.
	Instruction Leaflet FOUNDATION Fieldbus Linking Device LD 800HSE 3BDD011720	This manual provides basic instructions for installing the hardware and links to detailed information needed for configuration and commissioning of the linking device LD 800HSE.
Software	Configuration Manual System 800xA Device Management, FOUNDATION Fieldbus 3BDD012902	This manual provides detailed instructions on the configuration and commissioning of FOUNDATION Fieldbus subsystems with the Fieldbus Builder FOUNDATION Fieldbus.
	Engineering Reference Manual Communications and Fieldbusses AC 800F 3BDD012515	Among other information related to communications and fieldbusses connected to the AC 800F controller this document provides detailed instructions on the configuration and commissioning of FOUNDATION Fieldbus subsystems with the Control Builder F.