

Fusion 4 Local Access Device (LAD)

SS06300 Issue/Rev. 0.0 (3/26)



Fusion4 LAD Meets the Most Rigorous Global Safety Requirements

The LAD hardware is certified to be used in hazardous areas classified as Class I, Division 1 by National Electrical Code (NEC) standards or Zone I by International Electrotechnical Commission (IEC) standards. In addition, it carries multiple agency approvals, such as ATEX, IECEx, UL-Brazil, PESO, and FM, ensuring that it meets the most rigorous safety requirements globally.

The LAD increases functionality and simplifies the interface to all Fusion4 instruments, enabling easy adjustment and two-way data communications between the Fusion4 series and the LAD for rapid transfer of transactional data, configuration files, and calibration records, as well as firmware upgrading in the field. A removable Secure Digital (SD) card makes safe area transfer of data easy.

Features

The Fusion4 handheld controller can be used for a variety of tasks, such as:

- Adjustment of parameters
- Resetting alarms
- Calibration of the injector

Core Functions

- Navigate menus, adjust parameters, perform calibrations
- Retrieve and store configuration, calibration, and transaction data
- Perform firmware upgrades for LAD and Fusion4 devices
- Diagnostic tools: LED testing, system health, LAD information readouts
- Hand-held intrinsically safe controller for SSC-A, SSC-B, MSC-A, MSC-L devices
- Used for commissioning, configuration, calibration, troubleshooting, and data transfer
- Supports SD card operations, firmware upgrades, diagnostics, and transaction retrieval

Safety and Approvals

- KEMA 10ATEX0152 II 2 G Ex ia IIB T4 Gb
- IECEx KEM 10.0070 Ex ia IIB T4 Gb
- UL Brazil 25.1436, Ex ia IIB T4 Gb
- Peso (India) PENDING, Ex ia IIB T4 Gb
- FM Certificate FM17US0200, Class I Div 1 Groups C, D T4

Specifications

Environmental Conditions

- Operating temperature: -4 to +149 °F (-20 to +65 °C)
- Humidity: 5–95% relative humidity (RH) non-condensing
- Pressure: Atmospheric

SD Card Requirements

As this is an Intrinsic safe device the following must be strictly followed to maintain I/S compliance:

- Only SanDisk industrial 8GB SD/SDHC cards are recommended
- Max current: 70 milliamps (mA)
- Temperature range: 20 to +65 °C
- Not compatible with microSD/miniSD adapters

Stored Data Types

- Firmware
- Licenses
- Recipes
- Configurations
- Alarms
- Events
- Weights and Measures logs
- Screen shots

Firmware Update Features

- Supports firmware updates for SSC-A, SSC-B, MSC-A, MSC-L, and LAD
- Update sequences differ by device type

Supported Transfers

- Calibration records (single, range, or all)
- Configuration files (retrieve or apply)
- Transaction records (single, range, or all)
- Load profiles
- Up to 10,000 unsettled transactions stored on devices
- LAD stores retrieved data on SD card
- Screen shots saved in timestamped portable network graphics (PNG) format

Ordering

Fusion4 LAD FM Certified Part Number (P/N) 323-1392002

Fusion4 LAD ATEX/IECEX and PESO Certified P/N 323-1392004

Fusion4 LAD UL-Brazil Certified P/N 323-1392005

The specifications contained herein are subject to change without notice and any user of said specifications should verify from the manufacture that the specifications are currently in effect. Otherwise, the manufacturer assumes no responsibility for the use of specifications which may have been changed and are no longer in effect.

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