

Multi-Loader

Simplified manual - VW3A8121

04/2025



Important information

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NOTICE

Read these instructions carefully, and look at the equipment to become familiar with the device before trying to install, operate, or maintain it. The following special messages may appear throughout this documentation or on the equipment to warn of potential hazards or to call attention to information that clarifies or simplifies a procedure



The addition of this symbol to a Danger or Warning safety label indicates that an electrical hazard exists, which will result in personal injury if the instructions are not followed.



This is the safety alert symbol. It is used to alert you to potential personal injury hazards. Obey all safety messages that follow this symbol to avoid possible injury or death.

⚠ ⚠ DANGER

HAZARD OF ELECTRIC SHOCK, EXPLOSION, OR ARC FLASH

- Only appropriately trained persons who are familiar with and fully understand the contents of the present manual and all other pertinent product documentation and who have received all necessary training to recognize and avoid hazards involved are authorized to work on and with this equipment.
- Installation, adjustment, repair, and maintenance must be performed by qualified personnel.
- Verify compliance with all local and national electrical code requirements as well as all other applicable regulations with respect to grounding of all equipment.
- Before performing work and/or applying voltage on the equipment, follow the instructions given in the appropriate installation manual.

Failure to follow these instructions will result in death or serious injury.

PLEASE NOTE

The word "drive" as used in this manual refers to the controller portion of the adjustable speed drive as defined by NEC.

Electrical equipment should be installed, operated, serviced, and maintained only by qualified personnel. No responsibility is assumed by Schneider Electric for any consequences arising out of the use of this product. © 2025 Schneider Electric. All Rights Reserved.

Setup procedure

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1. Receive and inspect the Multi-Loader

Check that the reference printed on the label is the same as that on the purchase order.
Remove the Multi-Loader from its packaging and check that it has not been damaged in transit.
v Presentation. (see page 4)
v Description. (see page 5)



2. Connect the Multi-Loader

- v To a PC. (see page 6)
- v To a device. (see page 7)

3. Duplicate device configurations

- v Load a configuration onto the Multi-Loader. (see page 9)
- v Transfer a configuration to a device. (see page 10)
- v Transfer a configuration to several devices : Quick Store (see page 11)

4. Multi-Loader main menu (see page 12)

5. Diagnostic (see page 13)

For complete documentation, refer to www.se.com

Before you begin

Read and understand these instructions before performing any procedure with this product

⚠ DANGER

UNINTENDED EQUIPMENT OPERATION

- Read and understand this manual before installing or operating the Multi-loader.
- Any changes made to a device using the Multi-loader must be performed by qualified personnel.
- Read and understand the device manuals before you load or duplicate the Configuration from one device to another device.
- Ensure that you select the Configuration suitable for your application

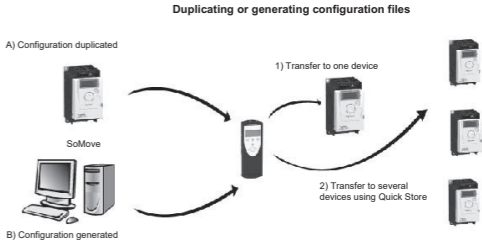
Failure to follow these instructions will result in death or serious injury.

Introduction

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The Multi-Loader is a standalone tool for transferring configuration files to devices with their power on or off.

- The Multi-Loader is used to set device parameters by loading a configuration file onto the device(s). (Devices must have the same reference. A consistency check is performed before the data transfer). On some devices the parameters can be set with them still in their box or before they are powered up.
 - This portable tool has been designed to load up to fifty devices a day and has a battery life of six days. However, this depends on the transfer time, the size of the configuration files and other parameters associated with the settings for the Multi-Loader and the connected devices.
 - It can configure ten drives in less than five minutes.
 - The Multi-Loader can provide the power supply for certain devices if they are turned off during the transfer.
- The Multi-Loader is also a firmware update tool.
 - The **Password FW** mode can be used to protect against incorrect operation by means of a password.



A) The device's configuration file is copied to the Multi-Loader's SD card. (See page 9)

B) The configuration file is generated by SoMove then transferred to the Multi-Loader's SD card.

1) The user selects and then transfers the configuration file from the Multi-Loader to the device. (See page 10)

2) Once the initial transfer is complete, the user can use Quick Store mode, which allows the Multi-Loader to load the same update file on several devices in succession. (See page 11)

All representations of the ATV12 drive throughout this document are given by way of example only to symbolize a device. Please refer to the device compatibility tables on page 8.

Receipt of the Multi-Loader

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Presentation

Product reference:

Check that the product reference printed on the label is the same as that on the delivery note. This should also correspond with the number on the purchase order.

Contents of the Multi-Loader box (VW3A8121)

Check that the Multi-Loader box contains the following:

- 1 x Multi-Loader
- 4 x LR6 (AA) batteries
- 1 x SD card
- 1 x Standard USB type A to Mini-B cable
- 1 x RJ45 (RJ45/RJ45) cable
- 1 x RJ45 female/female adapter (VW3A1105)
- 1 x Carry case
- 1 x Simplified manual (English and French)
- 1 x Impact resistant cover

Available as an option

- Multi-Loader Cordset (VW3A8126)

Weight

250 grams (including batteries)

Data storage

One SD card is supplied with the Multi-Loader. Any standard SD card is compatible with the tool.

Language

The menus are in English.

Power supplies

Two options are available for powering the Multi-Loader:

- 4 x LR6 (AA) alkaline batteries (batteries included)
- NiMh rechargeable batteries (batteries and charger not included)

Battery life

Depending on the type of batteries used, the Multi-Loader can transfer up to 300 configuration files.

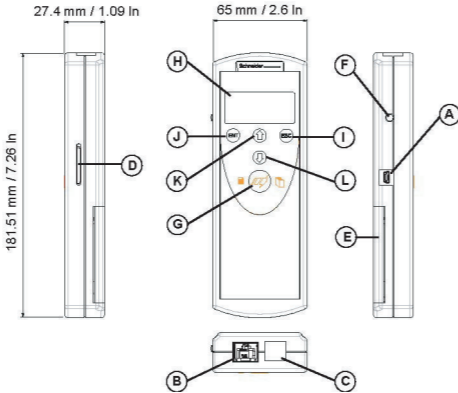
Power save feature

To prolong battery life, a standby function is activated within a programmable time delay; the Multi-Loader is reactivated by pressing the ON/OFF button.
Connection to a powered-up PC or device can also help conserve battery power, as the power supply from the connected device takes over from the batteries.

Receipt of the Multi-Loader

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Description



Letter	Description	Comments
A	Mini-B USB connector	The connection between the Multi-Loader (USB Mini-B type) and the PC (USB type A) is via a 1 m (3.28 feet) USB type A to Mini-B cable.
B	RJ 45 connector	The connection between the Multi-Loader and the device is via a RJ45 cable to load and transfer configuration files or updated application
C	RJ11 connector with label cover	This connector is reserved for Schneider Electric product support.
D	SD card slot	The SD card receives and stores the files. One SD card is supplied with the Multi-Loader.
E	Battery compartment	The Multi-Loader can take normal batteries or rechargeable batteries.
F	ON/OFF button	Press for 2 seconds to turn the tool on or off.
G	Quick Store key	Press this key to transfer data from the Multi-Loader to the device after an initial transfer.
H	Screen	The screen comprises 2 lines of 16 characters.
I	ESC key	Returns to the previous screen.
J	ENT key	Confirms the parameter selection or cancels messages.
K	Up arrow key	For menu navigation.
L	Down arrow key	For menu navigation.

Connecting the Multi-Loader

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This section describes the various ways of connecting the Multi-Loader.

Connection to a PC

There are two ways of storing files on the SD card:

- Insert the SD card in the Multi-Loader and connect the Multi-Loader to the PC via the standard USB type A to Mini-B cable (see Figure 3 below)
- OR
- Insert the SD card in the SD card reader on the PC (see Figure 4 below)



A: USB type A connector B: USB Mini-B type connector



SD card reader

For both these methods, the SD card is recognized as an external storage device; no driver is required. The SD card operates in Windows Explorer using the same copy/paste actions as any standard external storage medium.

Note :

- The PC must be on and operational before connecting the Multi-Loader to avoid to avoid an incorrect start up of the PC.
- The SD card must not be removed when the Multi-Loader is on and a transfer is in progress. Otherwise, data on the SD card may be lost.
- The following priority rules come into play when the Multi-Loader is connected to a PC:
 - If no transfer is in progress between the Multi-Loader and the drive, the connection to the drive is ignored and the Multi-Loader is detected by the PC.
 - If a transfer is in progress between the Multi-Loader and the drive, the user must wait until the transfer is complete. The Multi-Loader must then be reconnected so the PC can detect it.

Source of configuration files

There are two ways of managing configuration files:

- If a device's configuration is to be duplicated, it is copied to another device via the Multi-Loader. See "Loading a configuration from device" on page 9 and "Configuration transfers" on page 10 and 11.
- If the configuration file is generated by SoMove software, it must then be transferred to the Multi-Loader's SD card. See "Downloads" on page 15 and "Connection to a PC" above.

Connecting the Multi-Loader

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Connection to a drive

There are three ways of transferring configuration files.

The drive is in its packaging



When the drive is off, the Multi-Loader is powered by its batteries.

Note: When the drive is in its box, the guiding tool option can be used for quicker and easier in-box connection (no locking tab on the connector), thus speeding up the transfer and keeping the packaging intact.

The drive is mounted, wired, and powered-up or the drive is power on



When the drive is on, the Multi-Loader is powered by the drive via the RJ45 cable.

⚠ ⚠ DANGER

HAZARD OF ELECTRIC SHOCK, EXPLOSION, OR ARC FLASH - EXPOSURE TO ENERGIZED PARTS

- Adhere to NFPA 70E guidelines when using the Multi-Loader.
- The Multi-Loader is to be used only by qualified personnel as defined in NFPA 70E
- Read and understand the manuals for the applicative drive before accessing the communication port of the drive.
- Ensure that the RJ45 cable is not damaged

Failure to follow these instructions will result in death or serious injury.

Schneider Electric recommends that all power from the drive and enclosures housing the drive is disconnected before performing this procedure. If you choose not to follow this recommendation, you must adhere to NFPA 70E guidelines.

1. Remove all power from the drive and all enclosures housing the drive and wait 15 minutes to allow the DC bus of the drive to discharge.
2. Insert the Multi-Loader's communication cable into the drive's RJ45 communication port. Refer to the drive's installation manual for more information about how to perform this task.
3. Install and close all covers and doors before applying power to the drive. The drive must be powered on before performing an upload or download.
4. Perform the desired transfer.
5. Upon completing the transfer, remove all power from the drive and the enclosures housing the drive and wait 15 minutes to allow the DC bus of the drive to discharge.
6. Remove the Multi-Loader communication cable from the drive.
7. Install and close all covers and doors before reapplying power to the drive.
8. Confirm that the correct program is in the drive.

Connection to the graphic terminal (VW3A1101)

The Multi-Loader can be connected to the graphic terminal via its RJ45 female/female adapter (VW3A1105). This adapter is needed for updating the graphic terminal.



Configuration transfers

Compatibility

The table below shows the devices that are compatible with the Multi-Loader. It shows which type of file can be transferred depending on the state of the device.

The Multi-Loader can be used to:

- Transfer configuration (*.cfg) files via the RJ45 cable supplied with the Multi-Loader or using the guiding tool option (VW3A8126).

Device	Power on	Power off
ATV303	•	•
ATV305	•	•
ATV310	•	•
ATV12	•	•
ATV212	•	•
ATV32	•	•
ATV320 ^a	•	•
ATV312	•	•
LXM26	•	•
LXM28	•	•
LXM 32	•	•
LXM 32S	•	•
ATV31	•	•
ATV71	•	•
ATV61	•	•

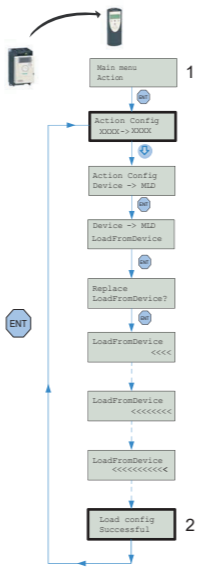
a. ATV320 and ATV32 configuration files are named ATV32.
Configuration transfer is only possible from ATV32 to ATV320

- Device compatible with the Multi-Loader tool

Note : When transferring files, devices must have the same reference. Any incompatibility will prompt a message **"Wrong reference Fault"** and the transfer operation will not be done. (See the table of detected fault page 13)

Loading a configuration from a device

This procedure allows the user to retrieve a configuration file ("file.cfg") from a device and load it onto the Multi-Loader's SD card.



STEP	Actions
1	<ul style="list-style-type: none">Turn the Multi-Loader on using the ON/OFF button "F" (see page 5)Connect the Multi-Loader to the device using the RJ45 cable (see page 7)Press "ENT" when the screen displays Main menu / Action.Select the Action Config / Device -> MLD menu using the arrow keys and press "ENT".Device -> MLD / LoadFromDevice appears on the screen. Press ENT until the transfer starts.
2	<ul style="list-style-type: none">Load Config Successful: The configuration has been loaded successfully onto the Multi-Loader; disconnect the RJ45 cable from the device. The device configuration file ("file.cfg") is now loaded onto the Multi-Loader's SD card.Pressing "ENT" returns the user to the "Action Config" menu.

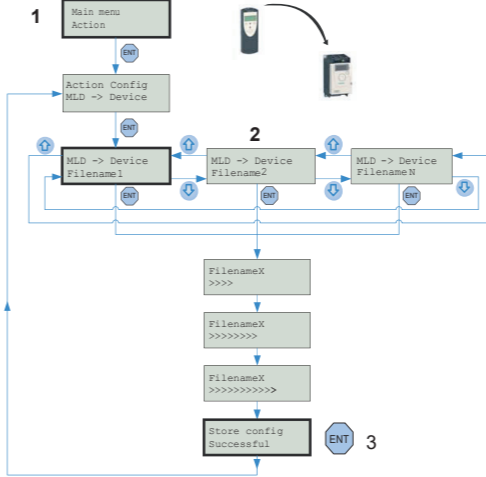
Note : If a configuration file has already been loaded onto the Multi-Loader's SD card, it will be overwritten by the new configuration file. Renaming the file on the SD card (via a PC connection) means that the user can store more than one file on the SD card. (For example, "file.cfg" can be renamed as "file1.cfg".)

Transferring the configuration to a device

This procedure allows the user to select the configuration file to be transferred to the device.

The user must already have:

- Loaded the device configuration file (*.cfg) onto the Multi-Loader (see page 9)
- OR
- Generated the configuration file using SoMove and loaded this file onto the Multi-Loader (filename1, filename 2, etc.)



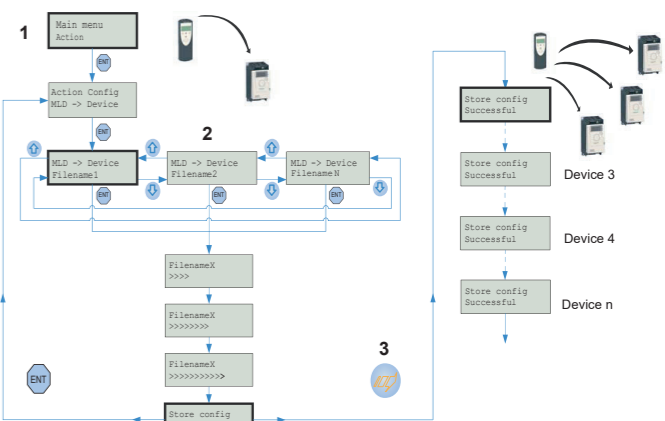
STEP	Procedure
1	<ul style="list-style-type: none">Turn the Multi-Loader on using the ON/OFF button "F" (see page 5)Connect the Multi-Loader to the device using the RJ45 cable (see page 7)Press "ENT" when the screen displays Main menu / Action.Press "ENT" when the screen displays Action Config / MLD -> Device.
2	<ul style="list-style-type: none">Select the file to be transferred using the arrow keys and press "ENT" to start the transfer. If no device is connected, a message (No device connected) appears on the screen (see page 13).
3	<ul style="list-style-type: none">The configuration has been transferred successfully from the Multi-Loader. Disconnect the RJ45 cable from the device.Pressing "ENT" returns the user to the "Action Config / MLD -> Device" menu.

Transferring the configuration to more than one device using Quick Store

This procedure describes how to use the Quick Store function to duplicate configurations.

The user must already have:

- Loaded the device configuration file (*.cfg) onto the Multi-Loader (see page 9)
- OR
- Generated the configuration file using SoMove and loaded this file onto the Multi-Loader (filename1, filename 2, etc.)



STEP	Transfer
1	<ul style="list-style-type: none">Turn the Multi-Loader on using the ON/OFF button "F" (see page 5).Connect the Multi-Loader to the device using the RJ45 cable (see page 7).Press "ENT" when the screen displays Main menu / Action.Press "ENT" when the screen displays Action Config / MLD -> Device.
2	<ul style="list-style-type: none">Select the file to be transferred using the arrow keys and press "ENT" to start the transfer. If no device is connected, a message (No device connected) appears on the screen (see page 13).
3	<ul style="list-style-type: none">The configuration has been transferred successfully from the Multi-Loader, disconnect the RJ45 cable from the device.Connect the Multi-Loader to the next device, then press the Quick Store keyStore Config Successful: The configuration has been loaded successfully onto the second device; remove the RJ45 cable from the device.This action can be carried out as many times as necessary.

Multi-Loader main menu

On power-up, the **Multi-Loader / Version "x.x"** menu is displayed on the screen.

The diagram below shows the various menus that can be accessed from the Multi-Loader main menu.

Main menu / Action accesses the following functions:

- Load from Multi-Loader to device
- Load from device to Multi-Loader
- update software of device

Main menu / Device accesses the following information:

- Device type
- Device version

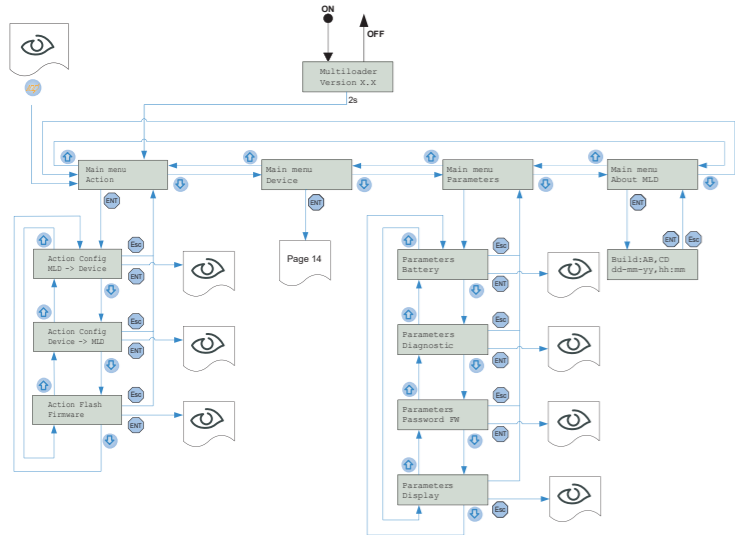
Main menu / Parameters accesses:

- Battery parameters
- Diagnostic parameters
- Password parameters
- Display parameters

Main menu / About MLD accesses:

- Multi-Loader version information

The Quick Store key "Q" (see page 5) allows the user to transfer the most recent configuration file or update to the device.



See Multi-Loader user's manual

Note : Quick Store mode is disabled when the Multi-Loader is loading files.

Parameter settings: Diagnostics

The diagram below shows the **Parameters / Diagnostic** menu accessible from **Main menu / Parameters**.

Diagnostic / Fault History: This menu accesses the fault history.

Diagnostic / Clear Faults: This menu is used to clear the fault history

⚠ DANGER		
UNINTENDED EQUIPMENT OPERATION DUE TO TRANSFER INTERRUPTION		
If an interruption occurs during the transfer of configuration to the device :		
<ul style="list-style-type: none">Identify and correct the cause of interruption.Repeat the transfer.		
Failure to follow these instructions will result in death or serious injury.		

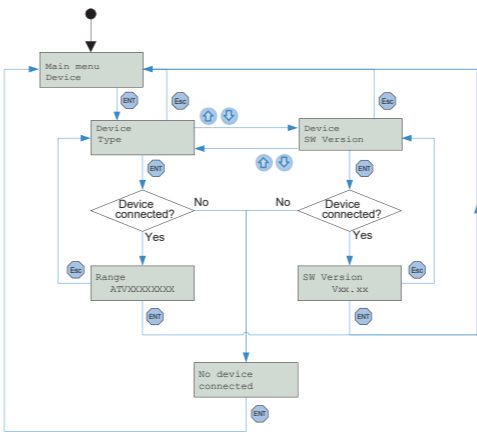
Multi-Loader display	Probable cause	Remedy
Alert: Low Battery Level	The battery charge is low. The appearance of this message depends on the charge level defined by the user.	<ul style="list-style-type: none">Make sure you have a set of replacement batteries to hand, as the current set have little life left.Remains not enough time of use.
Switch off Low battery	The battery charge is too low. The Multi-Loader will turn off.	<ul style="list-style-type: none">Replace the batteries immediately. No more transfers can be made.
Store config fault	Incomplete or incorrect transfer to the device	<ul style="list-style-type: none">Check the RJ45 cable and both of its connectors. Make sure the connection is secure for the duration of the transfer. Restart the transfer operation.
Wrong reference Fault	Bad transfer to the device; the configuration file selected is not compatible with the destination device.	<ul style="list-style-type: none">Check that the configuration file is compatible with the device to be configured.
Load config fault	Incomplete or incorrect transfer from the Multi-Loader to the device	<ul style="list-style-type: none">Check the RJ45 cable and both of its connectors. Restart the transfer operation.
Flash FW Fault	Incomplete or incorrect device update	<ul style="list-style-type: none">Check the RJ45 cable and both of its connectors. Make sure the connection is secure for the duration of the transfer. Restart the transfer operation.
No device connected	The device is not connected or is incorrectly connected.	<ul style="list-style-type: none">Check the RJ45 cable and both of its connectors. Make sure the connection is secure for the duration of the transfer. Connect the RJ45 cable.
No file selected	No configuration file is selected. There is no file present on the SD card.	<ul style="list-style-type: none">Select a file to transfer.Follow the procedure for loading configuration files described on page 9).
Wrong password	The password is incorrect.	<ul style="list-style-type: none">Enter the password correctly (the default password is [000]).
SD card fault	The card is not recognized.	<ul style="list-style-type: none">Check that the SD card is inserted correctly.Check that the SD card is formatted correctly.

Supervision

The diagram below shows the device main menu, accessible from **Main menu / Device**. This supervisory menu is used to check the reference and version of the device connected to the Multi-Loader.

Device Type: This menu accesses the reference of the connected device.

Device SW version: This menu accesses the software version of the connected device.



SoMove software

SoMove allows you to prepare the configurations to be loaded onto a device. It is freeware available for downloading from www.se.com

Multi-Loader updated file

To request Multi-Loader update files, contact your local Schneider Electric Customer Support Center or download it directly from the Schneider Electric website.

Updating the Multi-Loader tool

There are two methods for updating the Multi-Loader:

- The user connects the Multi-Loader to the PC (with the SD card in the Multi-Loader) and transfer the file for updated application device to the card SD. The Multi-Loader is then updated as soon as it is turned on.

Or

- The user copies the update file to the SD card, (with the SD card in the PC) then inserts the SD card into the Multi-Loader; the Multi-Loader is then updated as soon as it turned on.

Documentation structure

The following Multi-Loader documents are also available on www.se.com

Simplified manual

Supplied in the box with the Multi-Loader

Complete manual

Available online at www.se.com

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