

Multi-Loader

Simplified manual

04/2010



www.schneider-electric.com

Important information

1

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

- Read and understand this manual before using the Multi-Loader. Operation of the Multi-Loader must be performed by qualified personnel
- Read and understand the installation and programming manuals applicable to the drive that you are using with the Multi-Loader. Installation, adjustment, repair, and maintenance must be performed by qualified personnel.
- The user is responsible for compliance with all international and national electrical code requirements with respect to grounding the equipment.
- Many parts in this drive, including the printed circuit boards, operate at the line voltage. DO NOT TOUCH. Use only electrically insulated tools.
- DO NOT touch unshielded components or terminal strip screw connections with voltage present.
- DO NOT short across terminals PA/+ and PC/- or across the DC bus capacitors.
- Install and close all covers before applying power or starting and stopping the drive.

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.

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Setup procedure

2

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.

- Presentation. (see page 4)
- Description. (see page 5 and 6)

2. Connect the Multi-Loader

- To a PC. (see page 7)
- To a device.(see page 8)

3. Duplicate device configurations

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

4. Multi-Loader main menu (see page 11)

5. Diagnostic (see page 13)



For complete documentation, refer to www.schneider-electric.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

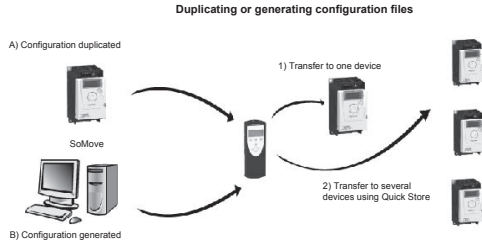
Failure to follow these instructions will result in death or serious injury.

Introduction

3

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 step 1 to 3)

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 10 step 1 to 4)

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 on the **User Manual**, available online at www.schneider-electric.com.

Receipt of the Multi-Loader

4

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, Japanese, French, German, Italian or Spanish.

Power supplies

Two options are available for powering the Multi-Loader:

- 1) With internal power supply:
 - 4 x LR6 (AA) alkaline batteries (batteries included)
 - NiMh rechargeable batteries (batteries and charger not included)
- 2) With external power supply :
 - USB type A to Mini-B cable direct on the PC power supply
 - Through an adaptor wall plug socket / USB type A. (230V~ to 5V ~)

Battery life

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

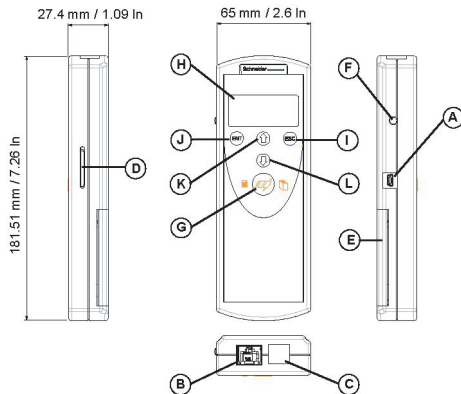
Power save feature

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

5

Description of the HMI



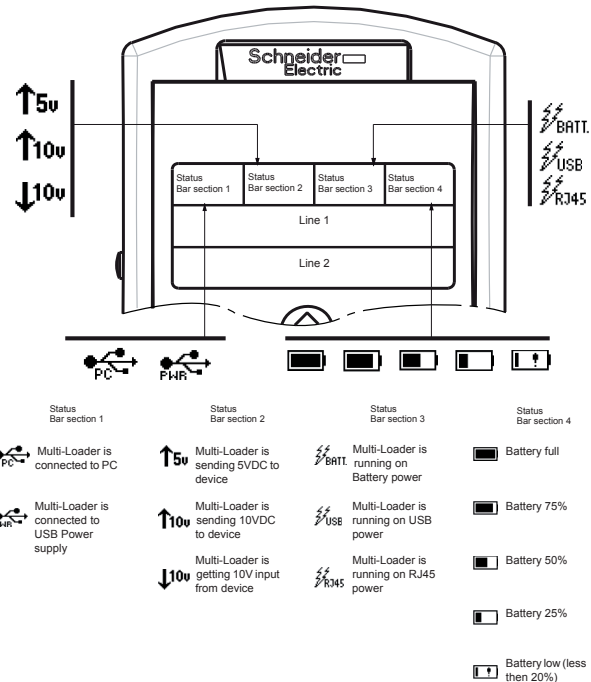
Letter	Description	Comments
A	Mini-B USB connector	The connection between the Multi-Loader (USB Mini-B type) and the PC (USB type A) is via a 1 m (3.28 feet) USB type A to Mini-B cable.
B	RJ 45 connector	The connection between the Multi-Loader and the device is via a RJ45 cable to load and transfer configuration 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.

Receipt of the Multi-Loader

6

Description of the status Bar.

The drawings below show names and functions of main parts display.



Connecting the Multi-Loader

7

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)



Figure 3



Figure 4

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 file name can have 32 characters and the special characters are forbidden.
- 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 should be reconnect to the pc for can be detected.

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.

