SETIS[™] software is included in the control unit once delivered. PLC runs the software directly from the SD card inserted in the PLC master slot (see picture).

It means the software do not requires additional installation in any computer or terminal and runs via the web-based application.

In order to do so, users can communicate with the PLC via WiFi (connecting the PLC to the local network) or via Ethernet (connecting the PLC to their PC). Read Control Unit manual for more details.

SD Card slot

UTP port connected to local network (WIFI communication)

UTP port connected to PC (Ethernet communication)



All software information, including user's configuration and DB are stored in the SD card.

SD Card Specifications:

- Capacity 16GB
- Class 4

Two major procedures are explained here:

- 1. How to back-up/copy the content from the SD card.
- 2. How to write/transfer the back-up to a new SD card.

Requirements:

- Computer running Windows OS. Unfortunately the software used to Copy/Write the SD card runs only on Windows OS
- Download and install in your PC the software HDD Raw Copy Tool. Link: <u>www.HDDGURU.com</u>. This Software will allow you to make and transfer an IMAGE of your SD card
- SD card reader (integrated in the PC or external)



How to back-up/copy the content from the SD card.

- 1. Switch OFF the Control Unit by disconnecting it from the electricity
- 2. Remove the SD card from the PLC master slot
- 3. Insert the SD card into the SD card reader
- 4. Start the HDD Raw Copy Tool software in your PC





How to back-up/copy the content from the SD card.

- 5. In the first screen you have to select the SOURCE to copy from. Select the SD card reader (name will differ from system to system)
- 6. Press Continue

SOURCE Device S	Selection - HDD Raw Copy Tool 1.10	Free			_	S
HDD RAW (COPY TOOL 1.10 Free			WWW.HDDGURU.COM		
BUS	MODEL	FIRMWARE	SERIAL NUMBER	LBA	CAPACITY	
SATA	WDC WD50 00BEKT-60KA9 (01.0	WD-WXC1A21Z0137	976,773,168	500.1 GB	
UNKNO	JMCR SD (J:)	0000	000000	32,505,856	16.64 GB	
Copyright ©	Copyright © 2005-2013 HDDGURU.COM		Please select SOURCE		Open Disk Management Console Continue >>>	
Disks found: 2						





How to back-up/copy the content from the SD card.

- 7. In the second screen you need to select the TARGET to where the IMAGE of the SD card will be stored
- 8. Double click on FILE
- 9. This will open a dialog to select where you want to store the IMAGE and how do you want to name it. Select then the location and give a name to the IMAGE file.
- 10. Be sure the FILE line is selected and Press Continue. WARNING: If you select the Hard Disk by accident, instead of FILE, the Hard Disk will be overwritten !!!

TARGET Device Selection - HDD Raw Copy Tool 1.10 Free								
	HDD R	AW COPY TOOL 1.10 Free	WWW.HDDGURU.COM					
	BUS	MODEL	FIRMWARE	SERIAL NUMBER	LBA	CAPACITY		
	SATA	WDC WD50 00BEKT-60KA9 (C: E: F:)	01.0	WD-WXC1A21Z0137	976,773,168	500.1 GB		
	FILE	C:\Users\Joris\Desktop\test.imgc						
	<		11	11		•		
Copyright © 2005-2013 HDDGURU.COM			Please select TARGET		Open Disk Management Console Continue >>>			
Dis	Disks found: 1							



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How to back-up/copy the content from the SD card.

- 11. In the next screen, verify your choices
- 12. Press START

2 HDD Raw Copy Tool 1.10 Free					
SOURCE: [1] JMCR SD 0000 [16.64 GB]	About				
TARGET: [FILE] C:\Users\Joris\Desktop\test.imgc					
	Copyright ©2005-2013 HDDGURU.COM				
СОРУ					
A/16/2015 8:58:15 AM					
4/16/2015 8:58:15 AM HDD Raw Copy Tool 1.10; http://hddg	uru.com				
4/16/2015 8:58:15 AM					
4/16/2015 8:58:15 AM Source: [1] JMCR SD 0000 [16.64 GB]					
4/10/2013 8.38.13 Alvi Talget. [FILE] C. (USEIS (DUIS (DEsktop	trestringt				
	.				
<	4				
Current task progress					
	Stop START				
[1] JMCR SD 0000 [16.64 GB] >>	FILE] C:\Users\Joris\Desktop\test.imgc				



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How to back-up/copy the content from the SD card.

- 13. Creating the IMAGE will take several minutes
- 14. Once completed, close the HDD Raw Copy Tool
- 15. The IMAGE size will be 16GB. However, it will have a lot of empty spaces. Therefore it compresses really well if you Zip it. Which is helpful for sending the IMAGE via email.



- 1. Locate or place the IMAGE file in the PC (Unzip it if necessary)
- 2. Insert the empty SD card into the SD card reader
- 3. Start the HDD Raw Copy Tool software in your PC





- 4. In the first screen you have to select the SOURCE to copy from.
- 5. Double click on FILE
- 6. This will open a dialog to select where is the IMAGE file. Make sure FILE is selected.
- 7. Press Continue

sc	URCE Device S	election - HDD Raw Copy Tool 1.10	Free			- ×	
HDD RAW COPY TOOL 1.10 Free					WWW.HDDGURU.COM		
		1	1				
	BUS	MODEL	FIRMWARE	SERIAL NUMBER	LBA	CAPACITY	
	SATA	WDC WD50 00BEKT-60KA9 (01.0	WD-WXC1A21Z0137	976,773,168	500.1 GB	
	UNKNO	JMCR SD (J:)	0000	000000	32,505,856	16.64 GB	
	FILE	IMAGE of JMCR SD	0000	000000	32,505,856	16.64 GB 🔸	
					0.000		
Open Disk Management					igement Console		
Copyright ©2005-2013 HDDGURU.COM		Please select SOURCE		0	Continue >>>		
Di	sks found: 2						





- 8. In the second screen you have to select the TARGET to where the IMAGE file will be written
- 9. Select the SD card reader. WARNING: If you select the Hard Disk by accident, instead of the SD card reader, the Hard Disk will be overwritten !!!
- 10. Press Continue

ΤA	RGET Device S	election - HDD Raw Copy Tool 1.10	Free				×
HDD RAW COPY TOOL 1.10 Free				WWW.HDDGURU.COM			
	BUS	MODEL	FIRMWARE	SERIAL NUMBER	LBA	CAPACITY	
	SATA	WDC WD50 00BEKT-60KA9 (01.0	WD-WXC1A21Z0137	976,773,168	500.1 GB	
	UNKNO	JMCR SD (J:)	0000	000000	32,505,856	16.64 GB 🔶	
	FILE	Double-click to open file					
					On an Disk Mars		
					Open Disk Management Console		
Copyright © 2005-2013 HDDGURU.COM		Please select TARGET		Continue >>>			
Dis	sks found: 2						





- 11. In the next screen, verify your choices
- 12. Press START

B HDD Raw Copy Tool 1.10 Free	- • •				
SOURCE: [0] IMAGE of JMCR SD 0000 [16.64 GB]	<u>About</u>				
TARGET: [1] JMCR SD 0000 [16.64 GB]					
Copyright ©2005-2013	HDDGURU.COM				
СОРУ					
4/16/2015 9:04:11 AM ***** IMPORTANT: DURING THE DUPLICATION PROCESS					
4/16/2015 9:04:11 AM ALL DATA ON TARGET WILL BE IRREVERSIBLY OVERWRITTEN!					
4/16/2015 9:04:11 AM 4/16/2015 9:04:11 AM Source: [0] IMAGE of IMCR SD 0000 [16.64 GB]					
4/16/2015 9:04:11 AM Target: [1] JMCR SD 0000 [16.64 GB]					
•	Þ				
Current task progress					
Stop START	-				
[0] IMAGE of JMCR SD 0000 [16.64 GB] >>> [1] JMCR SD 0000 [16.64 GB]	.4				





- 13. Writing the IMAGE file to the SD card will take several minutes
- 14. Once completed, close the HDD Raw Copy Tool
- 15. The IMAGE size is be 16GB. However, not every SD card has exactly the same size. It is possible that the size of the IMAGE is slightly larger than the size of the SD card. In this case, the progress bar will not reach 100%, but will stop earlier. This will not influence the functioning of the software, because only the first 15 GB are actually used, the rest is just empty space, so you can just close the application once progress has stopped, and use the SD card.

