# AI Series SD card instruction

## A. List of devices

- 1. Power cable. Photo 1.1
- 2. Data transfer cable. Photo 1.2
- 3. SD card reader. Photo 1.3
- 4. SD card.



Photo 1.1Photo 1.2Photo 1.3When purchasing the above device, no.1 to no.3 in the list are standard while the no.4 is optional.

#### **Connection instruction**

5. Power cable; refer to Photo 2.1, Photo 2.2. Connect one side to CPU board; the other side connects to the 4 PIN on I/O board.



Photo 2.1



6. Data transfer connecting way, refer to Photo 2.3, Photo 2.4



Photo 2.3

Photo 2.4

### **B.** How to check if the connection of AI Series

- a) Device didn't be connected or connection error, it would shows on the screen;
- b) Successful connection, it would shows on the screen.

#### C. Instruction.

a) Data saving. (We suppose the SD card is blank and the connection is OK in the following.) Suppose the Mould names are as Photo 4.1, the SD card is blank, so it appears as Photo 4.2.

选择	模具名 : 95451	模号:				
<b>动</b>		AL45: 门限开关战				
			模号选择 手 动	模具名	: V54 模号 AL45: 门限开关a	: 1 2008/01/09 19:3 抜障
001 V54 002 5D45 003 95451 004 005 006	007 008 009 010 011 012			001         ************************************	007 ***********************************	013 ************************************
模号名	95451			下载模号  1 上载模号  1		
模号复写						
	Photo 4.1				Photo 4.2	

i. Save mould number one by one.

Find the mould number you need in the mould number download page, press ENTER, and then CONFIRM. For example, choose NO.1, press ENTER, then CONFIRM. You will see the LED on SD card reader flash from red to green, that means the mould NO. 1 had been saved to SD card. (File named AIMOLD001.DAT). After save OK, the mould NO. 1 in SD card would shows the same name as in the machine, as shown in Photo 4.3.

Then choose NO.2, press ENTER, then CONFIRM. You will see the LED on SD card reader flash from red to green, that means the mould NO. 2 had been saved to SD card. (File named AIMOLD001.DAT). After save OK, the mould NO. 2 in SD card would shows the same name as in the machine, as shown in Photo 4.4.

手动 Same as mould NO.1 in machine	接具名: V54 使号: 1 oursea 手动 Same as mould NO.2 in machine
001         V54         007         ************************************	001         V54         008         ************************************
下载模号	下载模号 2 上载模号 1



Photo 4.4

ii. Save all mould numbers one time.

Input "0" in the column of "Download Mould Number", then press ENTER and CONFIRM. The LED on Card reader would keep flashing red. It means that the SD card is saving all the mould numbers from 1 to 150, the time for this processing would be about 10 minutes. After saving OK, all the mould number in SD card would be same as in the machine. See Photo 4.5.

号选择	<u>模具名</u> : V54	模号: 1	2008/01/09
手 动	AL-	45: 门限开关故障	
001 V54	007	013	
002 5D45	008	014	
003 95451	009	015	
004	010	016	
005	011	017	
006	012	018	
下载模号上载模号	Downloa	ad Mould Number	

Photo 4.5

In that time, you can pull out the SD card and save all the mould number from AIMLD001.DAT to AIMLD150.DAT in your PC.

iii. Save Production Statistics

> Press "MOLD/STAT" to the production statistics page, move the cursor to the top-right SD card function choose column, choose ON or OFF as your requirement. See Photo 4.6.

If chosen ON, the statistics would be saved to the file "AIQUALIT.CSV" after every cycle, Photo 4.7.

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Photo 4.6

Photo 4.7

In that time, you can pull out the SD card and save the file CSV to your PC. You can open the file with EXCEL, the operation is exactly as EXCEL.

#### Save Alarm History iv.

Press "Alarm History" to the page, move cursor to SD and choose ON or OFF, Photo 4.8.

If chosen ON, machine would save the alarm history with time and content to "AIALARML.CSV" file in the SD card. Photo 4.9.

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2099/00/06 21:53 2099/00/06 21:53	AL45: 门限开关故障	2	AL82	2008-1-10	8:49			1	1
2099/00/06 21:53 2099/00/06 21:53	AL06: 油泵过载	3	AL82	2008-1-10	8:49				
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Photo 4.8

Photo 4.9

In that time, you can pull out the SD card and save the file CSV to your PC. You can open the file with EXCEL, the operation is exactly as EXCEL.

#### b) Uploading data

Uploading mould number one by one i.

Choose the mould number you need and press ENTER then CONFIRM.

For example choose number 1, press ENTER, CONFIRM. You will see the LED on card reader flash from red to green. That means the uploading is OK. After that, you will find in the controller mould number 1 is same as in SD card. Photo 4.10.

		模具名	: 95451	模号:
-	动			AL45: 门限开关战
	001 V54		007	
	002 5D45		008	
	003 95451		009	
	004		010	
	005		011	
	300		012	
			012	
	模号名	-1	95451	
	12 × 1		00401	
	模号复写			

Photo 4.10

- ii. Uploading all the mould numbers at same time.
  - This function is in testing and we would finish it perfectly ASAP.

### c) Download data

- 1) Copy files AI0000 and AI0001 to SD card.
- 2) Short the two pins with a jumper; see Photo 4.11.
- 3) Power ON the controller, you will find the LED on SD card reader keep flashing and also the LED on controller panel, see Photo 4.12. Same as downloading data with PC, when LED stops flashing, the processing is OK. Total processing would cause about 12 minutes.



Photo 4.11

Photo 4.12