



Standalone N₂ Purge System

Operation Manual Ver 1.0

Version STD AD100

Manufacturer and publisher

Brillian Network & Automation Integrated System Co.,Ltd

**Add: No.41, Keyi St., Zhunan Township, Miaoli County 350,
Taiwan, R.O.C.**

Tel: 886-37-580708

Fax: 886-37-580728

Email : services@brillian.com.tw

Website : <http://www.brillian.com.tw>

The reproduction of any part of this user manual, in any form (by photocopying, microfilming or any other process) or the processing and distribution of the contents by electronic means is prohibited without the expressed written consent of Brillian.

It is prohibited to copy the software or use it for other purposes. it is expressly prohibited to distribute copies of the software to third parties. Violators will be held liable for damage.

Contents

1	Brief introduction of equipment	- 1 -
2	Description of safety rule of STD AD100	- 2 -
3	Description of starting steps	- 3 -
4	Description of stopping steps	- 3 -
5	Facility Requirement&SPEC	- 3 -
6	FCC Rules	- 3 -
7	STD AD100	- 5 -
8	STD AD100 Hardware	- 7 -
9	Operation Description	- 7 -
10	Periodical Maintenance	- 8 -

1 Brief introduction of equipment

Brillian Material Handling Solution(BMHS)

We provide a FAB semi-automatic material handling solution. Through a material storage devices, integrating the BMHS system and database, product locations and determine the transmission route, optimal throughput and increase productivity.

eRack management collects all eRack status information, exchanges information on behalf of all eRacks and MES. Provides admin search queries, work order inquiries, statistical analysis, etc.

The eRack shelf can read the RFID tag on the foup by RFID antenna, transfer the carrierID data to the background for unified management, and then receive the foup information from the background to the operator.

Feature of Product

- The BMHS system centrally monitoring shelves of STD AD100.
- Integrate MES and BMHS real time management systems to control all products in the factory.
- Significantly improve productivity.
- Flexible system's configuration and higher utilization rate.
- Provide various statistical data to facilitate analysis and decision-making.
- RFID Reader helps to confirm whether the products and sites are correct before assisting production, which greatly reduce errors.

2 Description of safety rule of STD AD100

2.1 Instruction for use °

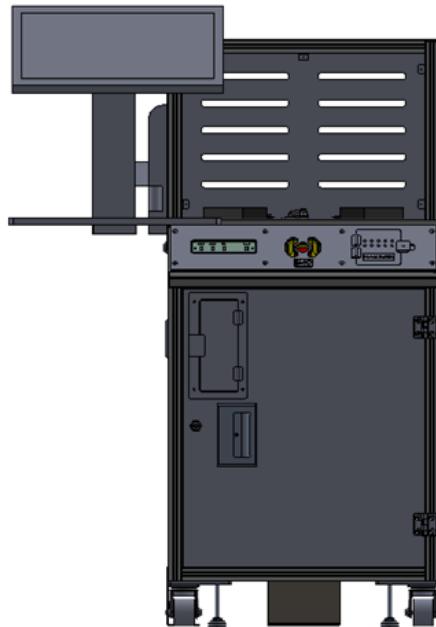
- 2.1.1 This manual is only written for Purge System Module °
- 2.1.2 Non-qualified or non-professional personnel are not allowed to operate or maintain the machine °
- 2.1.3 “Operator” should read carefully the software operation in advance °
- 2.1.4 “Maintainer” , in addition to getting familiar with software operation, should read carefully the maintenance manual and circuit diagram °
- 2.1.5 Before careful reading of operation manual or before thorough understanding of machine function, it is not allowed to operate the machine singly, and it needs an experienced guy standing beside for instruction °

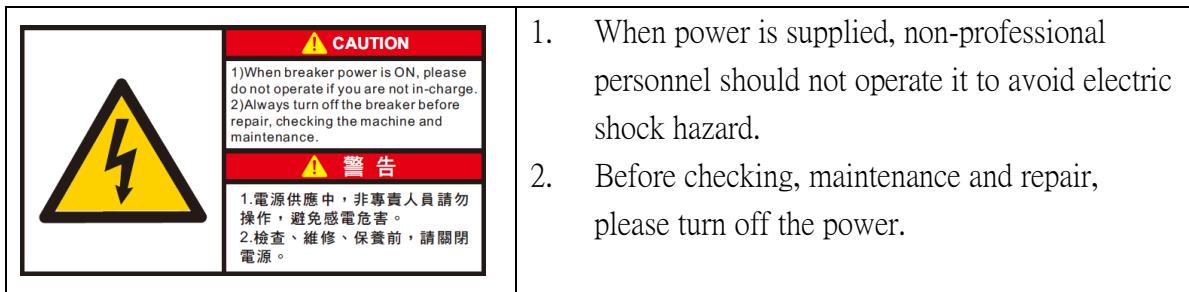
2.2 Instruction for transport

When transporting or moving a machine, it is suggested to use a cart for the transport, please also wear steel shoes for personal safety. The cart should be able to carry a load of more than 100Kg

2.3 For scrapping of equipment or disposal of waste, please follow the local regulations

- 2.4 Instruction for illuminance in the work area: Please follow the lighting environment provided by the plant of the client send.
- 2.5 The machine is not suitable to work in explosive circumstances
- 2.6 Before ex-factory, the level of noise should be less than 80dB (A).
- 2.7 About “Warnings and Cautions”





3 Description of starting steps

3.1 Adapter to be AC 100~230V

4 Description of stopping steps

4.1 Please remove Adapter

5 Facility Requirement&SPEC

Product Name	Standalone N2 Purge System
Model Type	STD AD100
Rating(Adapter)	100~230VAC, 50/60Hz, 1Φ+PE
Length X Width X Height(mm)	
Weight	kg
Frequency	134.2KHz

6 FCC Rules

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions:(1) this device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation

Warning: Changes or modifications to this unit not expressly approved by the party responsible for compliance could void the user authority to operate the equipment.

This Transmitter must not be co-located or operating in conjunction with any other antenna or transmitter.

Warning: Changes or modifications to this unit not expressly approved by the party responsible for compliance could void the user authority to operate the equipment.



This equipment has been tested and found to comply with the limits for a Class A digital device, pursuant to part 15 of the FCC Rules.

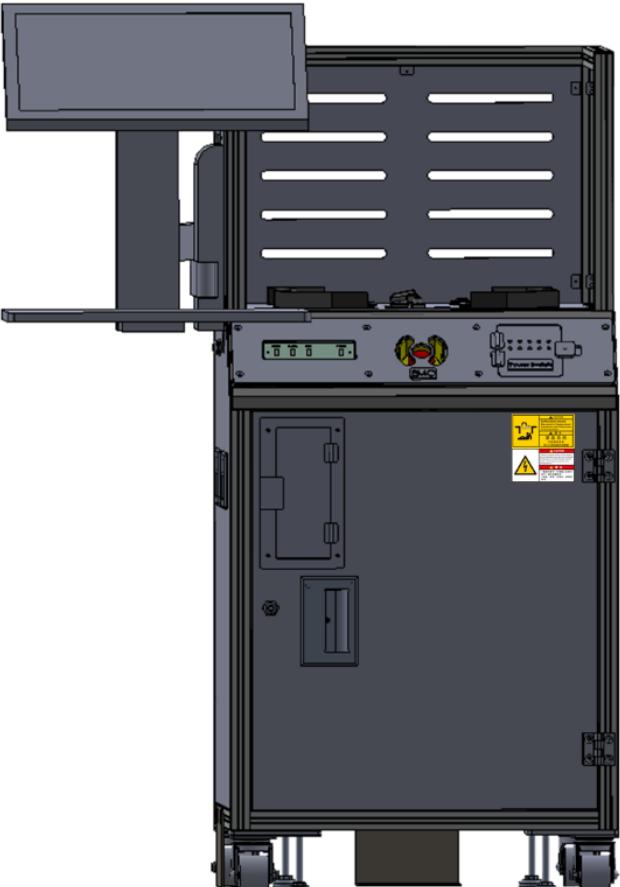
These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a commercial environment.

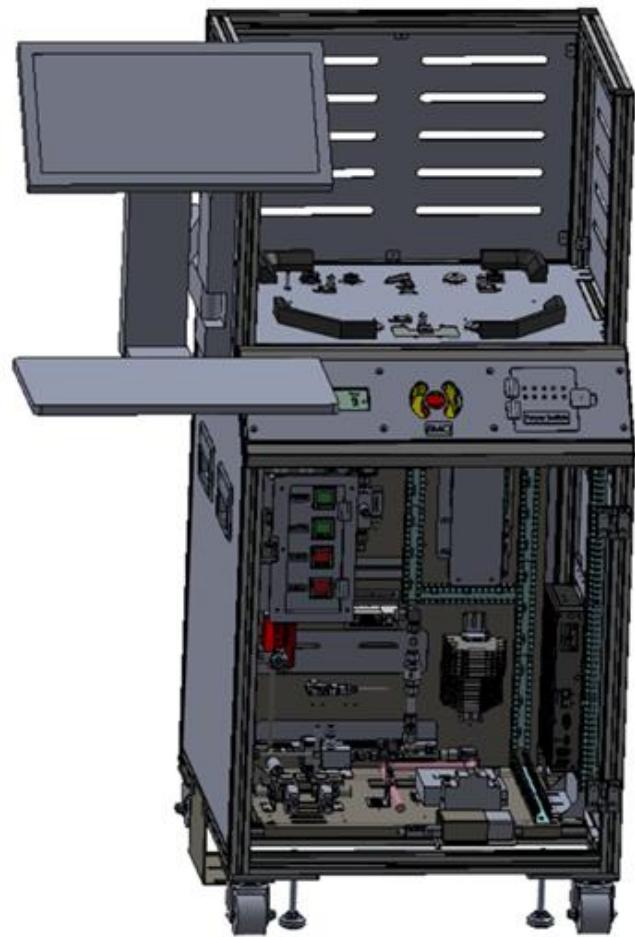
This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instruction manual,

may cause harmful interference to radio communications.

Operation of this equipment in a residential area is likely to cause harmful interference in which case the user will be required to correct the interference at his own expense.

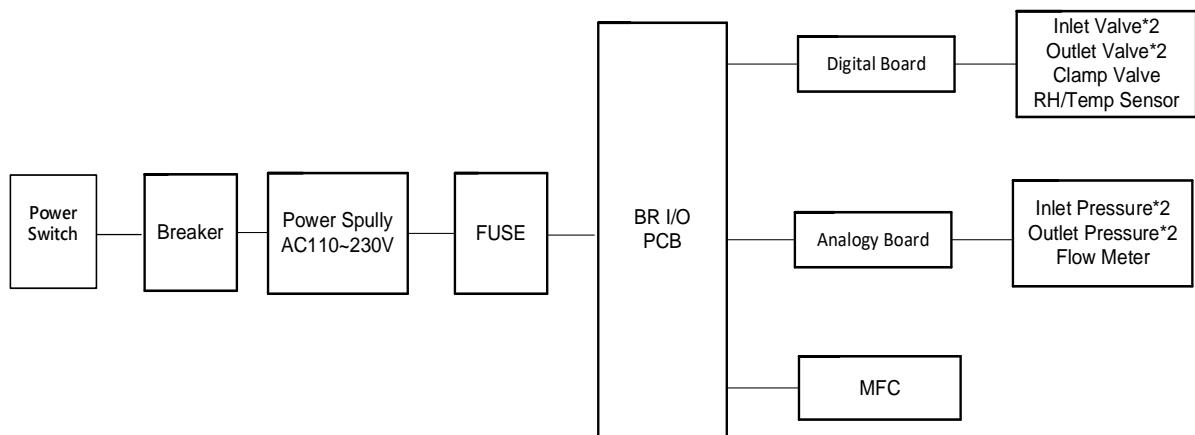
7 STD AD100

Module	Illustration
Front-1	



8 STD AD100 Hardware

8.1 Hardware Method



9 Operation Description

Put a FOUP fixed on the goods which you need to get goods information. The Transponder has a data record for the good. During the Host computer sent a order message to the CIDRW through RS232 or HSMS. The CIDRW

will sent back the goods information which read from the Transponder by radio frequency.

10 Periodical Maintenance

STD Maintenance Table						
Machine Tool :		<input type="checkbox"/> Three months <input type="checkbox"/> One Year		Date :	Operator :	
Item	Maintenance Content	Cycle	Action	Result	Remark	
Nozzle&Hold Check						
1	Confirm that all nozzles HOLD are firm	Three months	Use a cross head to lock the screws	<input type="checkbox"/> OK <input type="checkbox"/> NG		
2	Confirmation and cleaning of the nozzle	Three months	Nozzle cleaning	<input type="checkbox"/> OK <input type="checkbox"/> NG		
		One Year	Nozzle chang	<input type="checkbox"/> OK <input type="checkbox"/> NG		
3	Confirm the smoothness of the up and down movement of the nozzle shaft	Three months	Confirm that the nozzle axis moves up and down smoothly	<input type="checkbox"/> OK <input type="checkbox"/> NG		
Plate cleaning&Sensor Check						
4	Plate Placement function verification	Three months	Manual control press the Sensor to confirm whether the red light is on, the GUI is Normal display	<input type="checkbox"/> OK <input type="checkbox"/> NG		
5	Plate cleaning	Three months	Plate cleaning	<input type="checkbox"/> OK <input type="checkbox"/> NG		
Check MFC & Valve						
6	Confirm MFC	Three months	5LPM	<input type="checkbox"/> OK <input type="checkbox"/> NG		
			10LPM	<input type="checkbox"/> OK <input type="checkbox"/> NG		
			20LPM	<input type="checkbox"/> OK <input type="checkbox"/> NG		
			30LPM	<input type="checkbox"/> OK <input type="checkbox"/> NG		
			Port 1	<input type="checkbox"/> OK <input type="checkbox"/> NG		
7	Confirm Inlet&Outlet Valve	Three months	Manual Mode control Valve is abnormal or not	<input type="checkbox"/> OK <input type="checkbox"/> NG		
8	Confirm Flow Meter	Three months	Manual Mode control Valve is abnormal or not	<input type="checkbox"/> OK <input type="checkbox"/> NG		
9	Confirm Vacuum generator	Three months	Manual Mode control Valve is abnormal or not	<input type="checkbox"/> OK <input type="checkbox"/> NG		
Chang Filter and Check function						
10	Confirm EMO	Three months	Manual control press EMO to confirm whether the GUI displays a signal, All valve closed	<input type="checkbox"/> OK <input type="checkbox"/> NG		
11	Chang Inlet Filter	One Year	Chang Filter , Need to confirm the flow direction	<input type="checkbox"/> OK <input type="checkbox"/> NG		
12	Confirm Inlet&Outlet Pressure	Three months	Confirm if value is normal	<input type="checkbox"/> OK <input type="checkbox"/> NG		
Remark : One Year Content with Three months If you change Parts, please record it in the remarks						

10.1 Cleaning Plate

10.1.1 Purpose : Cleaning Plate Particle

Material : NA

Manual tool : Cleanroom wiper 、 DI Water

Notice : Before action, please confirm whether the machine is down

PM Step : Cleanroom wiper cloth into the DI Water from inside to outside and from top to clean the Plate surface.

