



BRILLIAN STD AD100 Standalone N2 Purge System Instruction Manual

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**Standalone N2 Purge System
Operation Manual Ver 1.0
Version STD AD100**

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Brilliant Network & Automation Integrated System Co., Ltd.

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Brief introduction of equipment

Brilliant 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.

Rack management collects all eRack status information, exchanges information on behalf of all Racks 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.

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

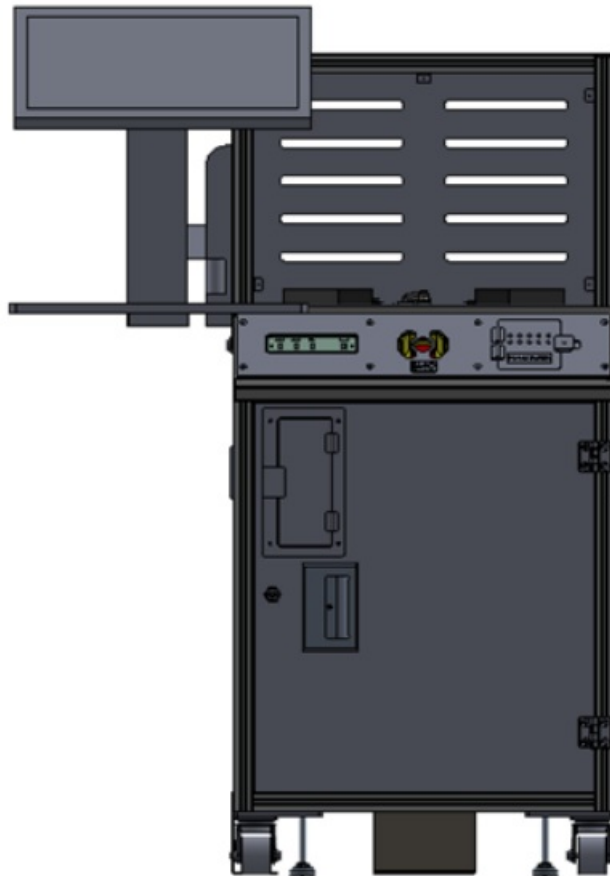
2.3 For scarping of equipment or disposal of waste, please follow the local regulations


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"



	⚠ CAUTION
	1)When breaker power is ON, please do not operate if you are not in-charge. 2)Always turn off the breaker before repair, checking the machine and maintenance.
	⚠ 警告
	1.電源供應中，非專責人員請勿操作，避免感電危害。 2.檢查、維修、保養前，請關閉電源。

1. When power is supplied, non-professional personnel should not operate it to avoid electric shock hazard.
2. Before checking, maintenance and repair, please turn off the power.
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, 1 ϕ +PE
Length X Width X Height(mm)	
Weight	kg
Frequency	134.2KHz

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.

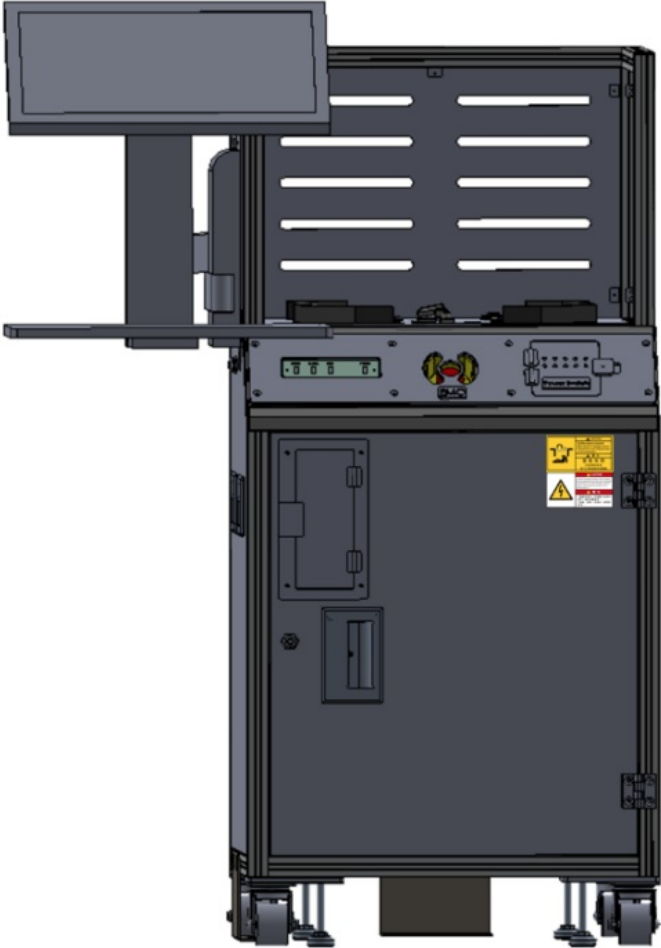
This equipment has been tested and found to comply with the limits for a Class A digital device, pursuant to part 15 of the FCC Rules.

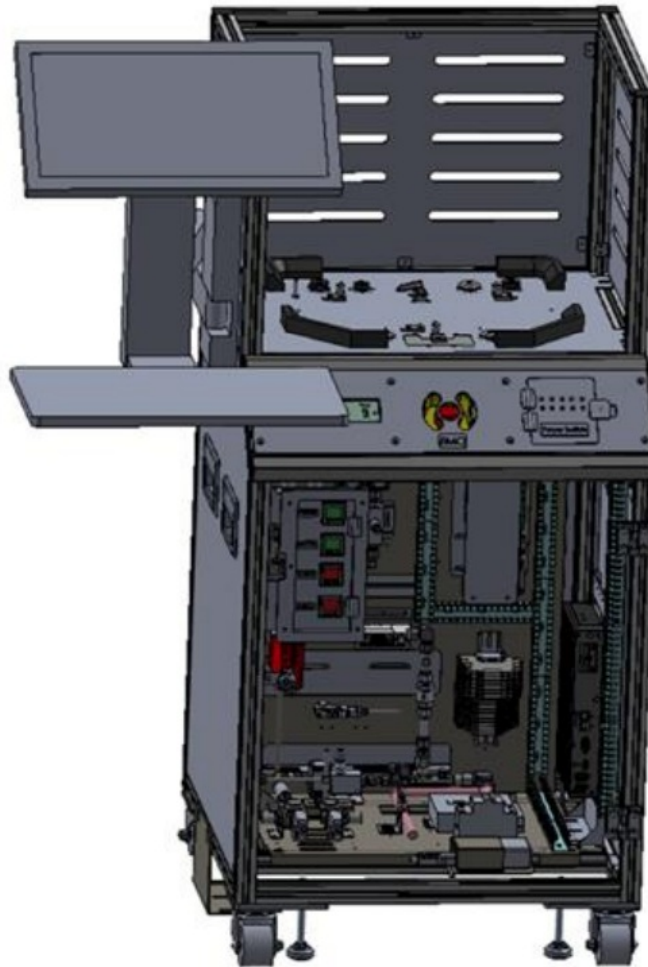
These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a commercial environment.

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.

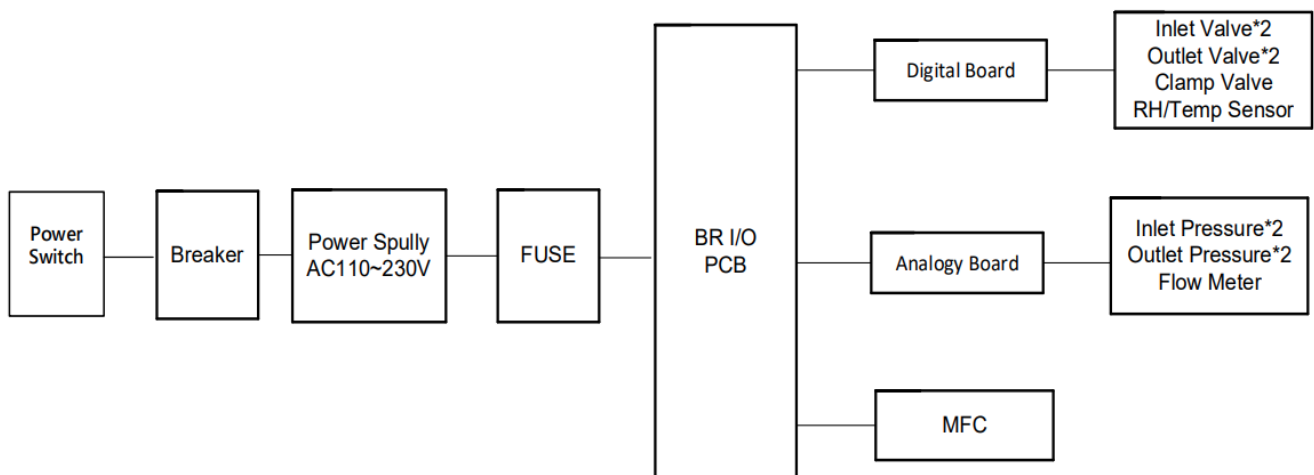
STD AD100

Module	Illustration
	 <p>The illustration shows a mobile medical device, possibly a patient warming unit, mounted on a four-wheeled cart. The device has a dark grey or black main body. On the left side, a monitor is mounted on a vertical stand, which is attached to a horizontal arm extending from the top of the device. The front panel of the device features a control interface with a small digital display showing '0.0', several buttons, and a red emergency stop button. A yellow warning label is visible on the right side of the front panel. The top of the device is open, revealing internal components and a series of horizontal slots, likely for ventilation or warming elements. The cart has a central support column and four casters.</p>



STD AD100 Hardware

8.1 Hardware Method



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.

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 change				<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	10LPM	20LPM	30LPM		
			Port 1					<input type="checkbox"/> OK <input type="checkbox"/> NG	
			Port 2					<input type="checkbox"/> OK <input type="checkbox"/> NG	
			Port 3					<input type="checkbox"/> OK <input type="checkbox"/> NG	
			Port 4					<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		
One Year Content with Three months									
Remark : If you change Parts, please record it in the remarks									

10.1 Cleaning Plate

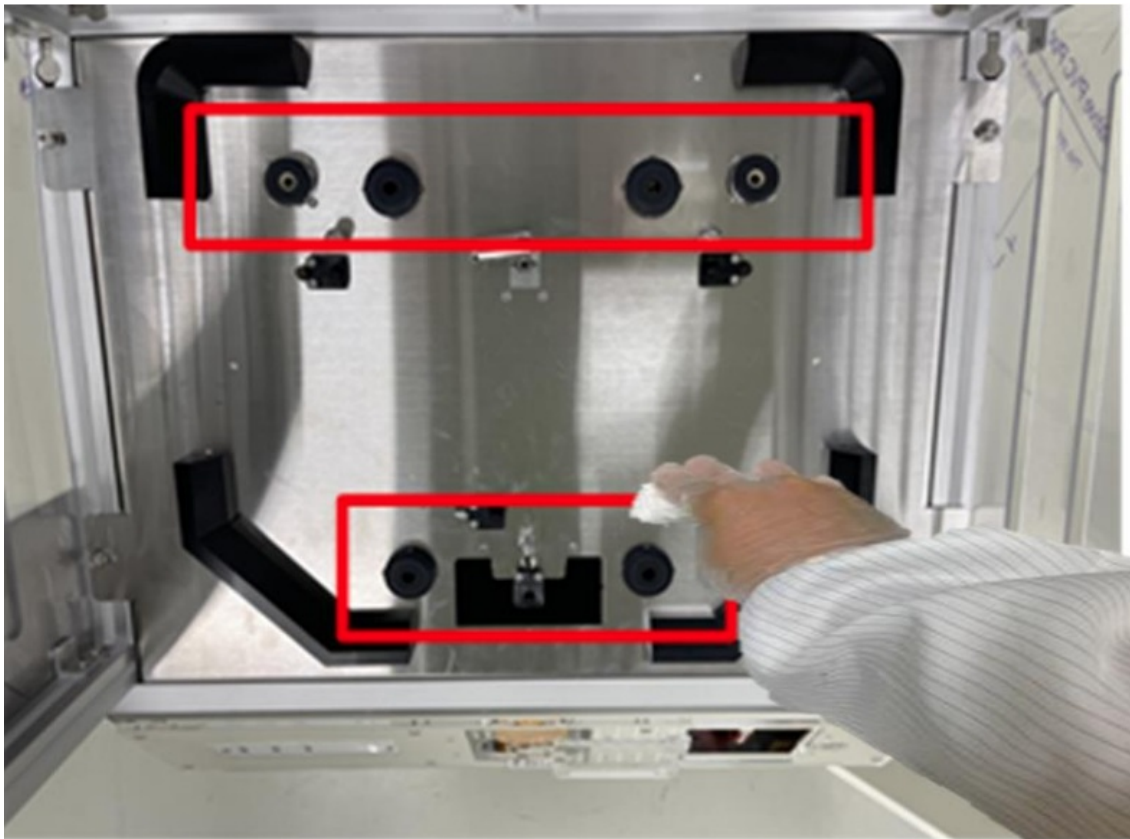
10.1.1 Purpose Cleaning Plate Particle

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.



Manufacturer and publisher

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Documents / Resources

	<p>BRILLIAN STD AD100 Standalone N2 Purge System [pdf] Instruction Manual STDAD100, 2A583-STDAD100, 2A583STDAD100, STD AD100 Standalone N2 Purge System, STD AD100, STD AD100 N2 Purge System, Standalone N2 Purge System, Standalone Purge System, N2 Purge System, Purge System</p>
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References

-  [Brilliant Network & Automation Integrated System Co. Ltd.](http://www.brillian.com.tw)