





Shanghai Siyi Intelligent Technology Co., Ltd.

E-mail: wmsales@siyizn.com

Address: East Area of Floor 5, No. 26, Lane 3399, Kangxin Road, Pudong New Area, Shanghai, China, 201321 Office: (+86)400-6886-275 Mobile & whatsapp: (+86)17317983724

Website: www.syrebo.com





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Innovative Rehabilitation Products & Services
For Clinicians & Patients



封面背面 封底背面

Contact Information

Manufacturer:



Shanghai Siyi Intelligent Technology Co., Ltd.

Address: East Area Of Floor 5, No. 26, Lane 3399, Kangxin Road, Pudong New

Area, Shanghai, China, 201321 Tel: 0086 17317983724

Country of Origin: China Website: www.syrebo.com E-mail: wmsales@siyizn.com

EC REP

Name: MedPath GmbH

Add: Mies-van-der-Rohe-Strasse SYREBO

Tel: +49(0)89 189174474 Fax: +49(0)89 5485 8884 E-mail: info@medpath.pro

Important

Descriptions on Environment of Use

This product is a common device that can run continuously (enclosed device without the ability to prevent liquid from entering), and it cannot be used in the presence of a mixture of flammable anesthetic gas and air or a mixture of flammable anesthetic gas and oxygen or nitrous oxide. This product may break down due to the interference of electromagnetic waves from portable TV, radio transceiver, and electric toys, etc. Please keep it away from these products.

Electromagnetic compatibility. This product should be kept away from the objects that can generate strong electromagnetic waves or noise, such as nuclear magnetic resonance equipment, microwave generator, and radiation equipment (e.g. X-ray machine, CT machine, etc.); This product should be kept away from high-frequency surgical instruments, such as high-frequency electrotome, and mobile phone, etc.

Intellectual Property

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Disclaimer

All contents in this manual are written in strict accordance with relevant national laws and regulations and the technical specifications of Shanghai Siyi Intelligent Technology Co., Ltd., and have been strictly checked and ensured to be correct. Shanghai Siyi Intelligent Technology Co., Ltd. is not liable for any consequences caused by improper use. Shanghai Siyi Intelligent Technology Co., Ltd. has the right to change the contents and version number of this User Manual according to the changes of product specification and the software upgrades without prior notice. The product picture is only for reference, please make the object as the standard.

Notification

Before using the Soft Rehabilitation Glove, please read this manual carefully to have a clear understanding of its functions and operations. Keep this manual handy so that it can be referred to whenever needed. Follow the operating procedures and usage described in this guide. Do not modify the device, replace any parts, use non specified parts, or remove protection devices, as these actions could result in a hazardous situation.

PLEASE READ THIS USER MANUAL BEFORE OPERATING THE GLOVE

Safety instructions

Caution	1. Please stop operation and unplug it immediately in case any of the following conditions occurs: 1) Thunder and lightning occurs; 2) Unusual sound, smoke, or abnormal smell is found; 3) The device surface temperature is excessively high; 4) Ingress of water into the device occurs; 5) The users feel painful, tumid or has any other discomfort!
Caution	Don't recharge the device in case any of the following conditions occurs: 1) The house is unattended or the user is out for an extended period; 2) The user is resting at night; 3) The environment is relatively humid!
Caution	Do use the original adapter and USB cable. Any recharger other than the original one may cause damages or malfunctions!
Caution	Don't use or recharge it at any location or environment such as inflammable, explosive objects, bedding, sofa, or bedside to avoid fire or other dangers!
Caution	Anyone other than professionals are not allowed to dismantle, repair the device or replace the battery without authorization, for it may cause fire, electric shock, explosions, or other dangers!

Caution	Don't plug or unplug it with a wet hand, for it may cause accidental electric shock or personal injuries!
Caution	Keep it away from anyone without behavior consciousness or any infant!
Caution	Anyone with any hand sprain, trauma, unknown bone fracture, serious osteoporosis, unprocessed fracture, or facture that requires braking cannot use the product before the situation is determined by any professional.
Notes	Before charging, please note that: 1) Inspect whether the socket/power strip has any potential safety hazard; 2) Inspect whether the plug and cable protective layer are damaged, and replace them promptly if necessary!
Notes	When using the product, don't place it on any platform or desktop that is uneven, slant, or vibrating, or it may cause the conditions as below: 1) The usage experience is inferior; 2) Noises are caused; 3) Any slide or drop may damage the product!
Notes	Don't place it at any dusty location. If dust or dirt is found, please promptly remove it and keep the surface, vent hole, and ports clean to prevent them from lowering its service life. Don't use any corrosive liquid to clean the product!
Notes	The length of each operation should be lower than 20 minutes, for excessive training is not in favor of your rehabilitation. The interval between two operations should be longer than one hour.

Notes	If the product is operated continuously or for an extended period, avoid using it in any humid area (e.g. the product is directly placed on relatively humid ground). Place it any a dry, ventilative area to prevent continuous high temperature from damaging the key components and lowering its service life!
Notes	Please follow the requirements as below to guarantee proper operation and avoid unnecessary troubles: 1) Don't plug the recharger into a socket for an extended period to avoid damaging the recharger; 2) If the device is idle for an extended period, place it in a dry location or a locker after it is charged. Charge it once or twice monthly; the charging time is about 1.5 hours each time (2 grids); the service life of the lithium battery will be compromised if it is in zero battery level for an extended period; 3) Unplug the recharger promptly after being fully charged, for excessive charging may lower the service life of the lithium battery!
Notes	Before any training, ensure the proposed hand is not stiff. If the hand is stiff, use manual methods, hot compress, or flexible massage gloves to make the hand soft for the training.
Notes	Don't wash the gloves with water directly. Soft cloth can be dipped in water or neutral detergent and fully wrung to wipe the gloves. If necessary, a rag dipped with a small amount of medicinal alcohol can be used for washing or disinfection. And the gloves can be reused after they are fully dry.

Symbols used in this User Manual

Symbol	Description	Symbol	Description
\triangle	Warning! Please refer to the document attached!	<u> </u>	General warning symbol
X	Do not discard with household waste	***	Information about the manufacturer of the device
(3)	Follow the user manual		Frangible
11	Upward	*	Protected from rain
*	Protected from direct sunlight		Protected from radiation
SN	Serial number	EC REP	Authorized representative in the E.U
	Use by	†	Type B applied part
\sim	Date of manufacture	MD	Medical device
CE	CE Marking		Electrical safety class II

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1. Product introduction

Combined with soft exoskeleton technology and neuroscience, Syrebo® soft rehabilitation glove is powered by the flexible pneumatic bionic muscles that help users to move and re-learn, so as to improve hand mobility and accelerate the process of hand function rehabilitation from three levels of nerves, brain and muscles.



2. Panel description

2.1 Button instruction



A. Flex+: Adjusting flexion grade/power.

B. Power: Tap it to switch to power adjustment; when adjusting, the indicators corresponding to bend status, bend parameters, power, extend status, and extend parameter flicker.

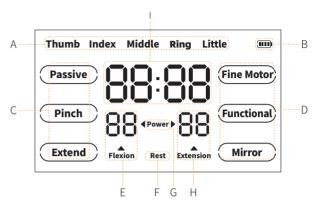
C. On-Off/Start-Pause: Press for 2s to turn it on; tap to start/pause the operation.

D. Mode switch: Passive training, Fine motor training, Pinching training, Functional training, Extend training, and Mirror training.

E. Extend+: Adjusting extend grade/power.

F. Finger button: The button can be chosen in passive mode only, and it's invalid in other modes; At any time in passive mode, tap any of five finger buttons to switch on or off the training for the corresponding finger.

2.2 Icon instruction



A. Individual finger training indicator:

①In the passive mode, it indicates the individual finger training on/off status; ②In other modes, it is on when the fingers are bending and off when fingers are extending.

B. Battery indicator:

①It is on and off after the device is switched on and off; ②It flickers if the battery level is low; ③During charging, it flickers; after battery level >95%, it stays on for 5 minutes it stays on for 5 minutes and then automatically lights out, and the machine is off and starts low-power mode; ④When the battery level <5%, it cannot be turned on without charging. C/D. Training mode:

The indicator is on after corresponding training mode is started.

E. Flexion grade/power:

It indicates current flexion grade/power. The last status is indicated by default after it is switched on

F. Rest:

It is on when the mandatory rest is triggered, and it is off after exiting (See Auxiliary function – Mandatory rest according to specific rules).

G. Power:

The indicator is on when power is being adjusted (Adjustable range: Flexion: 01-09; Extension: 01-09).

H. Extension grade/power:

It indicates current extension grade/power, and the last status is indicated by default after it is switched on.

I. Time indicator: It records the training duration.

3. Instructions for wearing gloves



(1) Fingers are threaded into the ends of the gloves in turn.



(2) Pull the Velcro of the glove to the wrist and fasten it.



(3) Tighten the Velcro strap from the end of the thumb on the back through the thumb and index finger, to the palm and finish wearing glove.



Tip:
All fingers should reach the top of the glove.



Tip: Pull down the end of the finger sleeve on the palm side as far as you can.



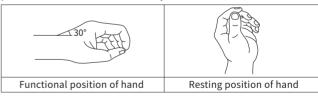
Tip:
Please wear it correctly and make sure that
there is no gap between the wrist and the
glove when making a fist.

Before using, ensure the battery is full charged (≥1 grid) or it is plugged. Prolonged empty power will cause irreversible damage to the battery and lose training records. Please recharge it promptly and maintain correct using habits.

4. Function description

4.1 Passive training

- 1. With the groove side up, insert the power glove plug parallelly to the "power port" of the host, press the "on-off" button for 2 seconds to turn on the host, and wear the power glove on the affected hand.
- 2. Press the mode switch button and choose the passive training mode. When the passive mode icon indicator is on, press the "flex +/extend+" button to adjust the dwell time of the action to suit the patient's own speed. (Time adjustment range: flexion 0-15s, extension 0-15s.)
- 3. Press the power button to enter the power adjustment mode, and the indicators of power and the corresponding value on the screen will light up and flash synchronously. Press the flex +/extend + button to adjust the power value that suits you. If no operation happens within 3 seconds, the adjusted data is automatically saved, and exits the mode.
- 4. Keeping the affected hand in a "functional position" or "resting position" is conducive to the recovery effect.



- 5. Press the "on-off/start-pause" button, the power glove can drive the affected hand to do passive training.
- 6. After 20 minutes of training, the machine will automatically stop training and the patient should take a rest. To avoid overtraining, please rest for at least one hour before next training.

Finger button mode

(can be adjusted by touching the corresponding finger button)

- 1. This adjustment is only possible in passive mode.
- 2. By default, all finger buttons are turned on, and the corresponding finger indicator is on. When selecting finger to train, press the button to turn off the corresponding Finger button, and press again to turn it on.
- 3. The trainings of five fingers cannot be all turned off; at least the training of one finger must be turn on.

4.2 Pinching training

- 1. With the groove side up, insert the power glove plug parallelly to the "power port" of the host, press the "on-off" button for 2 seconds to turn on the host, and wear the power glove on the affected hand.
- 2. Press the mode switch button and choose the pinching training. When pinching training indicator is on, press the "flex +/extend+" button to adjust the dwell time of the action to suit the patient's own speed. (Time adjustment range: flexion 01-06s, extension 01-06s.)
- 3. Press the "on-off/start-pause" button, the power glove can drive the affected hand to do pinching training according the loop instructions of the "action library(1)".
- 4. After 20 minutes of training, the machine will automatically stop training and the patient should take a rest. To avoid overtraining, please rest for at least one hour before next training.

Tips:

- 1. Action library①: open the hand, pinch the thumb and index finger; open the hand, pinch the thumb and the middle finger; open the hand, pinch the thumb and the ring finger; open the hand, pinch the thumb and the little finger.
- 2. The finger indicators are off by default in the pinching training mode, and the corresponding finger indicators will be turned on sequentially as the action library command changes.

4.3 Extend training

- 1. With the groove side up, insert the power glove plug parallelly to the "power port" of the host, press the "on-off" button for 2 seconds to turn on the host, and wear the power glove on the affected hand.
- 2. Press the mode switch button and choose the extend training, the extend training indicator is on. The duration is not adjustable in this mode (default keep stretching the hand statically for 30s).
- 3. Press the "on-off/start-pause" button, the power glove can drive the affected hand to do extend training according the loop instructions of the "action library2".
- 4. After 20 minutes of training, the machine will automatically stop training and the patient should take a rest. To avoid overtraining, please rest for at least one hour before next training.

Tips:

- 1. Action library 2: open the hand, relax the hand.
- 2. The finger indicators are not displayed by default in the extend training mode.

4.4 Fine motor training

- 1. With the groove side up, insert the power glove plug parallelly to the "power port" of the host, press the "on-off" button for 2 seconds to turn on the host, and wear the power glove on the affected hand.
- 2. Press the mode switch button and choose the fine motor training. When fine motor training indicator is on, press the "flex +/extend+" button to adjust the dwell time of the action to suit the patient's own speed. (Time adjustment range: flexion 01-06s, extension 01-06s.)
- 3. Press the "on-off/start-pause" button, the power glove can drive the affected hand to do fine motor training according the loop instructions of the "action library3".

4. After 20 minutes of training, the machine will automatically stop training and the patient should take a rest. To avoid overtraining, please rest for at least one hour before next training.

Tips:

- 1. Action library③: open the hand, bend the thumb, extend the thumb, bend the index finger, extend the index finger, bend the middle finger, extend the middle finger, bend the ring finger, extend the ring finger, bend the little finger, extend the little finger, make a fist.
- 2. The finger indicators are not displayed by default in the fine motor training mode, and the corresponding finger indicators are lit sequentially as the action library command changes.

4.5 Functional training

- 1. With the groove side up, insert the power glove plug parallelly to the "power port" of the host, press the "on-off" button for 2 seconds to turn on the host, and wear the power glove on the affected hand.
- 2. Press the mode switch button and choose the functional training. When functional training indicator is on, press the "flex +/extend+" button to adjust the dwell time of the action to suit the patient's own speed. (Time adjustment range: flexion 01-06s, extension 01-06s.)
- 3. Press the "on-off/start-pause" button, the power glove can drive the affected hand to do functional training according the loop instructions of the "action library(4)".
- 4. After 20 minutes of training, the machine will automatically stop training and the patient should take a rest. To avoid overtraining, please rest for at least one hour before next training.

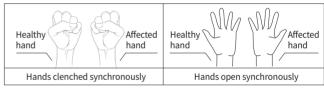
Tips:

1. Action library (4): open the hand, two fingers pinch, open the hand, three fingers pinch, open the hand, four fingers pinch, open the hand, make a fist.

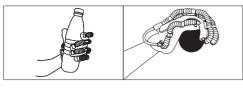
2. The finger indicators are not displayed by default in the functional training mode, and the corresponding finger indicators are lit sequentially as the action library command changes.

4.6 Mirror training

- 1. With the groove side up, insert the power glove plug parallelly to the "power port" of the host, press the "on-off" button for 2 seconds to turn on the host, and wear the power glove on the affected hand.
- 2. Press the mode switch button and choose the mirror training, the mirror training indicator is on. The speed is not adjustable in this mode.
- 3. Press the "on-off/start-pause" button, the healthy hand makes a fist and drives the affected hand to grasp something synchronously; the healthy hand is stretched out and drives the affected hand to be stretched synchronously. So that the healthy hand drives the affected to do training synchronously and coordinately.



- 4. During training, the patient's active consciousness needs to focus on the coordinated movement of the two hands, which helps to improve the training effect.
- 5. When mastered, the affected hand can try to grasp small objects under the grasp of the healthy hand to increase self-awareness and hand tactile stimulation.
- 6. After 20 minutes of training, the machine will automatically stop training and the patient should take a rest. To avoid overtraining, please rest for at least one hour before next training.



Tip: The finger indicators are not displayed by default in the functional training mode.

5. Ancillary functions

5.1 Mandatory rest

- 1. After 20 minutes of training, the machine will automatically stop training and the patient should take a rest. To avoid overtraining, please rest for at least one hour before next training.
- 2. The mandatory rest is triggered when the machine has been running continuously for 40 minutes. Training is not possible in this mode, and the countdown begins; When the countdown ends, the forced rest mode is automatically exited

5.2 Auto power-off

1. If there is no training and no operation within five minutes, it will be power-off automatically shut down.

5.3 Parameter storage

- 1. The host automatically saves the current mode/ extension/ flexion/ finger button parameter values, and automatically restores them the next time it is turned on.
- 2. If the last shutdown mode is an unpredictable abnormal state, it will automatically switch to passive training mode when it is turned on again.

6. Product specifications

Product name	Soft rehabilitation glove
Model	SY-HRC12
Size	135×145×65mm
Rated charging voltage	9V
Rated charging current	1.5A

7. Packing list

Name	Quantity	Name	Quantity
User manual (including warranty card*1)	1	Power glove	1
Host	1	Quality certificate	1
Data glove	1	Adaptor	1

Special statement:

If the specifications, appearance, color, performance and accessories of the product are changed, the actual product shall prevail without prior notice.

8. Cleaning and maintenance

- 1 Cleaning and Maintenance
- (1) Host: After the host is powered off, wipe its external surface with a fine fiber cloth moistened with water and wrung out, pay attention to avoid water entering the host, and prohibit the use of corrosive liquid to clean the product;
- (2) Glove: Wipe it with 75% medical alcohol for five times or disinfect it with ultraviolet radiation for 1 hour before use.
- 2 Maintenance of Training Equipment
- (1) The routine maintenance is carried out regularly by the user, mainly including the cleaning of the external surface of the host and the regular cleaning and disinfection of the wearing parts. For specific descriptions on the operation, refer to the section "Cleaning and Maintenance" above.
- (2) Overhauling of the host:
- a. Power supply-related components (e.g. charger ,data line and power interface) get loose, invalid or damaged;
- b. Connection, operation and display components (e.g. buttons or interfaces on the host) fail or get damaged;

The above maintenance operations need to be performed by the professional technicians appointed by Shanghai SiYi Intelligent Technology Co., Ltd.

- (3) Update of software: Shanghai SiYi Intelligent Technology Co., Ltd. will update the glove software according to the stability and actual use of the device:
- (4) It is recommended to refer to the Section 8. "Troubleshooting" of this Manual for troubleshooting

9. Repair policy

Shanghai Siyi Intelligent Technology Co., Ltd. is the only organization that can determine and confirm whether the products are within the warranty scope.

The host is guaranteed or could be replaced free of charge within one year from the date of purchase if it has been found with any manufacturing or assembly defect; and the glove is guaranteed or could be replaced free of charge within three months from the date of purchase if it has been found with any manufacturing and assembly defect.

Shanghai SiYi Intelligent Technology Co., Ltd. will be responsible for the safety, reliability and performance of the product only when the assembly, adjustment, maintenance and upgrade of the product are all carried out by Shanghai SiYi Intelligent Technology Co., Ltd. or its authorized party; the electrical equipment used together with the product meets the special requirements of national standards and this Manual; and the operation of the product is carried out according to the methods and steps described in this Manual.

Faults caused by improper use of the product or by use of the product beyond the conditions indicated in the Manual are all not covered by the warranty. Faults caused by wearing or negligence accidents, improper supervision or unauthorized disassembly and use change of the product are all not covered by warranty.

10. Disposal

Mechanical parts of this product cannot be discarded at will, otherwise they will pollute the environment.

Please consult or contact a professional waste disposal company or the distributor to dispose the scrapped or waste products or accessories in accordance with the requirements of relevant local laws and regulations.

11. Warranty

If the device needs repair, contact Shanghai Siyi Intelligent Technology Co., Ltd. or the local distributor for Warranty details.

If the device needs to be shipped, pack the device and its accessories carefully to prevent shipping damage. Always transport the device in the original shipping container.

Appendix A

Product Cable Information

Cable	Max. cable length, Shielded/unshielded		Number	Cable classification
AC Power Line	1.5m	Shielded	1 Set	AC Power

Important information regarding Electro Magnetic Compatibility (EMC)
This electrical medical equipment needs special precautions regarding EMC and put into service according to the EMC information provided in the user manual; The equipment conforms to this IEC 60601-1-2:2014 standard for both immunity and emissions. Nevertheless, special precautions need to be observed:

The equipment with no ESSENTIAL PERFORMANCE/Following ESSENTIAL PERFORMANCE is intended used in Professional healthcare facility environment except for near active HF SURGICAL EQUIPMENT and the RF shielded room of an ME SYSTEM for magnetic resonance imaging, where the intensity of EM DISTURBANCES is high. /Home healthcare environment

ESSENTIAL PERFORMANCE: None

WARNING: Use of this equipment adjacent to or stacked with other equipment should be avoided because it could result in improper operation. If such use is necessary, this equipment and the other equipment should be observed to verify that they are operating normally".

The use of accessories, transducers and cables other than those specified or provided by the manufacturer of this equipment could result in increased electromagnetic emissions or decreased electromagnetic immunity of this equipment and result in improper operation.

WARNING: Portable RF communications equipment (including peripherals such as antenna cables and external antennas) should be used no closer than 30 cm (12 inches) to any part of the Model Name, including cables specified by the manufacturer. Otherwise, degradation of the performance of this equipment could result." STATEMENT: For the purpose of its operation, the equipment has wireless communication function, it includes RF transmitter and receiver, 2.4GHz, Pulse

STATEMENT: The equipment is a large, permanently-installed system. According to chapter 8.6 of IEC 60601-1-2:2014, the test was only performed at some discrete frequencies.

- a) An exemption has been used and that the equipment has not been tested for radiated RF immunity over the entire frequency range 80 MHz to 6 000 MHz;
- b) WARNING: This equipment has been tested for radiated RF immunity only at selected frequencies, and use nearby of emitters at other frequencies could result in improper operation"; and
- c) Following frequencies and modulations are used to test the immunity of the equipment.

Selected Frequency (MHz)	Emitter	Frequency Range	Modulation
103.7	Radio	Business radio band	FM
433.92	Remote controller	ISM frequency	FM
446	Walkie-talkie	walkie-talkie	FM
915	Mobile phone	GSM900	Pulase
2400	Wireless router	WIFI	Pulase
5000	Wireless router	WIFI	Pulase

STATEMENT: The equipment is designed compatible with high frequency surgical equipment; the condition includes working or standby in close proximity to high frequency surgical equipment.

When the AC input voltage is interrupted, the equipment will shut down and if the power supply restored, it should be recovered by operator manually, this degradation could be accepted because it will not lead to unacceptable risks and it will not result in the loss of basic safety or essential performance.

Following degradation caused by Electrostatic Discharge or Electrical fast transients/burst could be accepted because it will not lead to unacceptable risks and it will not result in the loss of basic safety or essential performance:

Vertical bars appear on the screen, it can recover to previous condition by operator manually by restart the power switch.

Data transmission stopped, the transmission could be restarted by operator manually by restart the power switch or re-insert the data cable.

EMI Compliance Table (Table 1)

Table 1 - Emission

Phenomenon	Compliance	Electromagnetic environment
RF emissions	CISPR 11 Group 1, Class B	Professional healthcare facility environment and Home healthcare environment
Harmonic distortion	IEC 61000-3-2 Class B	Professional healthcare facility environment
Voltage fluctuations and flicker	IEC 61000-3-3 Compliance	Professional healthcare facility environment

NOTE: The EMISSIONS characteristics of this equipment make it suitable for use in industrial areas and hospitals (CISPR 11 class B). If it is used in a residential environment (for which CISPR 11 class B is normally required) this equipment might not offer adequate protection to radio-frequency communication services. The user might need to take mitigation measures, such as relocating or re-orienting the equipment.

Table 2 - Enclosure Port

_		Immunity test levels	
Phenomenon	Basic EMC standard	Professional healthcare facility environment	
Electrostatic Discharge	IEC 61000-4-2	±8 kV contact ±2kV, ±4kV, ±8kV, ±15kV air	
Radiated RF EM field	IEC 61000-4-3	3V/m 80MHz-2.7GHz 80% AM at 1kHz	
Proximity fields from RF wireless communications equipment	IEC 61000-4-3	Refer to table 3	
Rated power frequency magnetic fields	IEC 61000-4-8	30A/m 50Hz or 60Hz	

Table 3 – Proximity fields from RF wireless communications equipment

Test frequency	Band	Immunity test levels
(MHz)	(MHz)	Professional healthcare facility environment
385	380-390	Pulse modulation 18Hz, 27V/m
450	430-470	FM, ±5kHz deviation, 1kHz sine, 28V/m
710		
745	704-787	Pulse modulation 217Hz, 9V/m
780		
810		
870	800-960	Pulse modulation 18Hz, 28V/m
930		
1720		
1845	1700-1990	Pulse modulation 217Hz, 28V/m
1970		
2450	2400-2570	Pulse modulation 217Hz, 28V/m
5240		
5500	5100-5800	Pulse modulation 217Hz, 9V/m
5785		

Table 4 – Input a.c. power Port

Franch Programme Control of the Cont			
Phenomenon	Basic EMC standard	Immunity test levels	
		Professional healthcare facility environment	
Electrical fast transients/burst	IEC 61000-4-4	±2 kV 100kHz repetition frequency	
Surges Line-to-line	IEC 61000-4-5	±0.5 kV, ±1 kV	
Surges Line-to-ground	IEC 61000-4-5	±0.5 kV, ±1 kV, ±2 kV	
Conducted disturbances induced by RF fields	IEC 61000-4-6	3V, 0.15MHz-80MHz 6V in ISM bands and amateur radio bands between 0.15MHz and 80MHz 80%AM at 1kHz	
Voltage dips	IEC 61000-4-11	0% U ₇ ; 0.5 cycle At 0°, 45°, 90°, 135°, 180°, 225°, 270° and 315°	
		0% U ₁ ; 1 cycle and 70% U ₁ ; 25/30 cycles Single phase: at 0°	
Voltage interruptions	IEC 61000-4-11	0% U _⊤ ; 250/300 cycles	

Table 5 – Signal input/output parts Port

Phenomenon	Basic EMC standard	Immunity test levels
		Professional healthcare facility environment
Conducted disturbances induced by RF fields	IEC 61000-4-6	3V, 0.15MHz-80MHz 6V in ISM bands and amateur radio bands between 0.15MHz and 80MHz 80%AM at 1kHz