



11.0 Specification Sheets

Controller Specifications		
Model:		C2-1001 (Controller with 15' Power Cord)
Supply Voltage:		100-240 VAC
Supply Frequency:		50-60 Hz
Current:		1.7/0.85 A
Size:		337 x 140 x 95 mm (13.25 x 5.50 x 3.75 in.)
Weight:		2.05 kg (4.5 lb)
Case Material:		Plastic
Fuse Ratings:		2A, 5 x 20mm, Time Delay, 1A @ 240V
Type of protection against electric shock:		Class II
Degree of protection from electrical shock:		Type BF
Degree of protection from liquid ingress:		IP33
Mode of Operation:		Continuous
		RF Transmitter
		Separate collection for electronic waste
Environment Conditions:		
	Operation: (Controller)	10°C to 35°C (50°F to 95°F) 30-80% RH
	Operation: (Surface)	10°C to 45°C (50°F to 104°F) 30-80% RH
	Storage and Transport:	-40°C to 60°C (-40°F to 140°F) 10%-95% RH (non-condensing)
	Operating Pressure:	70 kPa to 106 kPa

Data subject to change.

Power Cord Specifications		
Model:	CA-90B2-15	
Weight:	0.40 kg (0.85 lb.)	
Length:	4.5 m (15 ft.)	
Wall Plug:	NEMA 5-15P 3P Hospital Grade Green Dot	
Controller Plug:	IEC 60320-C13	


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Model C2-1001 Manufacturer's Declaration- Electromagnetic Immunity			
The Model C2-1001 system is intended for use in the electromagnetic environment specified below. The customer or the user of the Model C2-1001 system should assure that it is used in such an environment.			
Immunity Test	IEC 60601-1, 3.1 Edition Test Level	Compliance Level	Electromagnetic Environment/Guidance
Electrostatic discharge (ESD) IEC 61000-4-2: 2008	± 8 kV contact ± 15 kV air	± 8 kV contact ± 15 kV air	Floors should be wood, concrete, or ceramic tile. If floors are covered with synthetic material, the relative humidity should be at least 30%.
Electrical fast transient/burst IEC 61000-4-4: 2012	± 2 kV for power supply lines ± 1 kV for input/output lines	± 2 kV for power supply lines ± 1 kV for input/output lines	Mains power quality should be that of a typical commercial or hospital environment.
Surge IEC 61000-4-5: 2005	± 1 kV line(s) to line(s) ± 2 kV line(s) to earth	± 1 kV line(s) to line(s) ± 2 kV line(s) to earth	Mains power quality should be that of a typical commercial or hospital environment.
Voltage dips, short interruptions and voltage variations on power supply input lines IEC 61000-4-11: 2004	0% UT (>100% dip in UT) for 0.5 cycle 0% UT (100% dip in UT) for 1 cycle 70% UT (30% dip in UT) for 30 cycles 0% UT (100% dip in UT) for 300 cycles	0% UT (>100% dip in UT) for 0.5 cycle 0% UT (100% dip in UT) for 1 cycle 70% UT (30% dip in UT) for 30 cycles 0% UT (100% dip in UT) for 300 cycles	Mains power quality should be that of a typical commercial or hospital environment. If the user of the Model C2-1001 requires continued operation during power mains interruptions, it is recommended that the Model C2-1001 be powered from an uninterruptible power supply or a battery.
NOTE: UT is the AC mains voltage prior to application of the test level.			

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Model C2-1001 Manufacturer's Declaration- Electromagnetic Immunity

The **Model C2-1001** system is intended for use in the electromagnetic environment specified below. The customer or the user of the **Model C2-1001** system should assure that it is used in such an environment.

Immunity Test	IEC 60601-1, 3.1 Edition Test Level	Compliance Level	Electromagnetic Environment/Guidance
Conducted RF IEC 61000-4-6: 2013	3 Vrms 6Vrms (Amateur radio) 150 kHz to 80 MHz	3 Vrms 6Vrms (Amateur radio) 150 kHz to 80 MHz	<p>Portable and mobile RF communications equipment should be used no closer to any part of the Model C2-1001, including cables, than the recommended separation distance calculated from the equation applicable to the frequency of the transmitter.</p> <p>Recommended separation distance</p> <p>$d=1.2\sqrt{P}$</p> <p>$d=1.2\sqrt{P}$ 80 MHz to 800 MHz</p> <p>$d=2.3\sqrt{P}$ 800 MHz to 2.3 GHz</p> <p>Where P is the maximum output power rating for the transmitter in watts (W) according to the transmitter manufacturer and d is the recommended separation distance in meters (m).</p> <p>Field strengths from fixed RF transmitters, as determined by an electromagnetic site survey¹, should be less than the compliance level in each frequency range.</p> <p>Interference may occur in the vicinity of equipment marked with the following symbol:</p> 
Radiated RF IEC 61000-4-3: 2006 A1: 2007 A2: 2010	10 V/m 80 MHz to 2.7 GHz 80% AM modulation at 1kHz	10 V/m 80 MHz to 2.7 GHz 80% AM modulation at 1kHz	
Magnetic field immunity IEC 61000-4-8: 2009	30 A/m 50/60 Hz	30 A/m 50/60 Hz	

NOTE: Device complies with IEC 60601-1-2: 2014 Table 9 requirements tested to IEC 61000-4-3.

NOTE: These guidelines may NOT apply in all situations. Electromagnetic propagation is affected by absorption and reflection from structures, objects, and people.

1. Field strengths from fixed transmitters, such as base stations for radio (cellular/cordless) telephones and land mobile radios, amateur radio, AM and FM radio broadcast and TV broadcast cannot be predicted theoretically with accuracy. To assess the electromagnetic environment due to fixed RF transmitters, and electromagnetic site survey should be considered. If the measured field strength in the location in which the **Model C2-1001** is used exceeds the applicable RF compliance level above, the **Model C2-1001** should be observed to verify normal operation. If abnormal performance is observed, additional measures may be necessary such as re-orienting or relocating the **Model C2-1001**.

11.0 Specification Sheets - Continued

Model C2-1001 Manufacturer's Declaration-Electromagnetic Emissions

The **Model C2-1001** system is intended for use in the electromagnetic environment specified below. The customer or the user of the **Model C2-1001** system should assure that it is used in such an environment.

Emissions Test	Compliance	Electromagnetic Environment/Guidance
RF emissions CISPR 11: 2009 A1: 2010	Group 1	The Model C2-1001 uses RF energy only for its internal function. Therefore, its RF emissions are very low and are NOT likely to cause any interference in nearby electronic equipment.
RF emissions CISPR 11	Class B	
Harmonic emissions IEC 61000-3-2: 2014	Complies	
Voltage fluctuations/ flicker emissions IEC 61000-3-3: 2013	Complies	

Recommended Separation Distances Between Portable and Mobile RF Communications Equipment and Model C2-1001

The **Model C2-1001** system is intended for use in the electromagnetic environment specified below. The customer or the user of the **Model C2-1001** system should assure that it is used in such an environment.

Rated Maximum Output Power of Transmitter (W)	Separation Distance According to Frequency of Transmitter(m)		
	150 kHz to 80 MHz d=1.2√P	80 MHz to 800 MHz d=1.2√P	800 MHz to 2.5 GHz d=2.3√P
0.01	0.12	0.12	0.23
0.1	0.38	0.38	0.073
1	1.2	1.2	2.3
10	3.8	3.8	7.3
100	12	12	23

For transmitters radiated at a maximum output power NOT listed above, the recommended separation distance d in meters (m) can be estimated using the equation applicable to the frequency of the transmitter, where P is the maximum output power rating of the transmitter in watts (W) according to the transmitter manufacturer.

NOTE: At 80 MHz and 800 MHz, the separation distance for the higher frequency range applies.

NOTE: These guidelines may NOT apply in all situations. Electromagnetic propagation is affected by absorption and reflection from structures, objects, and people.

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Changes or modifications not expressly approved by Dabir Surfaces, Inc. could void the user's authority to operate the equipment.

This device complies with Part 15 of the FCC Rules and with Industry Canada license-exempt RSS standard(s). Operation is subject to the following two conditions: (1) this device may not cause interference, and (2) this device must accept any interference, including interference that may cause undesired operation of the device.

Le present appareil est conforme aux CNR d'Industrie Canada applicables aux appareils radio exempts de licence. L'exploitation est autorisee aux deux conditions suivantes : (1) l'appareil ne doit pas produire de brouillage, et (2) l'utilisateur de l'appareil doit accepter tout brouillage radioelectrique subi, meme si le brouillage est susceptible d'en compromettre le fonctionnement.

Under Industry Canada regulations, this radio transmitter may only operate using an antenna of a type and maximum (or lesser) gain approved for the transmitter by Industry Canada. To reduce potential radio interference to other users, the antenna type and its gain should be so chosen that the equivalent isotropically radiated power (e.i.r.p.) is not more than that necessary for successful communication.

Conformement à la réglementation d'Industrie Canada, le present émetteur radio peut fonctionner avec une antenne d'un type et d'un gain maximal (ou inférieur) approuvé pour l'émetteur par Industrie Canada. Dans le but de réduire les risques de brouillage radioélectrique à l'intention des autres utilisateurs, il faut choisir le type d'antenne et son gain de sorte que la puissance isotrope rayonnée équivalente (p.i.r.e.) ne dépasse pas l'intensité nécessaire à l'établissement d'une communication satisfaisante.

NOTE: This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation.

If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

12.0 Limited Warranty

Dabir Surfaces, Inc. warrants that the product ("Dabir Product") accompanied by this Limited Warranty, shall be free from defects in material and workmanship under normal use for a period of one (1) year. Except where prohibited by applicable law this warranty is valid, beginning from date of original purchase, for the specific period associated with the Dabir Product purchased, and is nontransferable and is limited to the original, end user purchaser. This warranty gives you specific legal rights, and you may also have other rights which vary under local laws.

Remedies

Dabir Surfaces, Inc. entire liability and your exclusive remedy for any breach of warranty shall be, at Dabir Surfaces, Inc. option, (1) to replace the Dabir Product, or (2) to refund the price paid, provided that the Dabir Product is returned to a location as specified by Dabir Surfaces, Inc. with a copy of the sales receipt, or dated itemized receipt, from an authorized reseller, and with a return authorization number provided by Dabir Surfaces, Inc. Shipping and handling charges may apply except where prohibited by applicable law. Dabir Surfaces, Inc. may, at its option, use new or refurbished or used parts in good working condition to replace any hardware product. Any replacement Dabir Product will be warranted for the remainder of the original warranty period or thirty (30) days, whichever is longer or for any additional period of time that may be required in the end user's jurisdiction.

This warranty does not cover problems or damage resulting from (a) accident, abuse, misapplication, or any unauthorized repair, modification or disassembly; (b) improper operation or maintenance, usage not in accordance with product instructions or connection to improper voltage supply; or (c) use of consumables, such as replacement batteries, not supplied by Dabir Surfaces, Inc. except where such restriction is prohibited by applicable law.

How to Obtain Warranty Support

Before submitting a warranty claim, you must contact Dabir technical support at: support@dabir-surfaces.com or by calling (888) 559-3642 to verify the product failure and to receive a Return Material Authorization (RMA) number. **RETURNS WILL NOT BE ACCEPTED WITHOUT AN RMA NUMBER.** The addresses and customer service contact information for the Dabir Product can be found in the documentation accompanying your Dabir Product and on the web at www.dabir-surfaces.com. You must include a copy of the sales receipt, or dated itemized receipt, from an authorized reseller, along with a return authorization number provided by Dabir Surfaces, Inc. with your return. You must report any defect to Dabir Surfaces Inc. within the one (1) year period of the warranty.

The following information must be marked on the outside of each carton and/or pallet:

1. Shipper's name and address
2. Dabir Surfaces "Ship-to" address as listed below:

Dabir Surfaces, Inc.
Attention: Repair Dept. / RMA # _____
7447 W. Wilson Ave.
Harwood Heights, IL 60706 USA

12.0 Limited Warranty - Continued

Limitation of Liability

DABIR SURFACES, INC. SHALL NOT BE LIABLE FOR ANY SPECIAL, INDIRECT, INCIDENTAL OR CONSEQUENTIAL DAMAGES WHATSOEVER, INCLUDING BUT NOT LIMITED TO LOSS OF PROFITS, REVENUE OR DATA (WHETHER DIRECT OR INDIRECT) OR COMMERCIAL LOSS FOR BREACH OF ANY EXPRESS OR IMPLIED WARRANTY ON YOUR DABIR PRODUCT OR FOR ANY OTHER CLAIM, EVEN IF DABIR SURFACES, INC. HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES. IN ADDITION, TO THE EXTENT PERMITTED BY LAW, THE MAXIMUM LIABILITY OF DABIR SURFACES, INC. WITH RESPECT TO ANY DABIR PRODUCT FOR ANY CLAUSE WHATSOEVER (WHETHER BREACH OF CONTRACT OR WARRANTY, TORT OR OTHERWISE), IS LIMITED TO THE AMOUNT ACTUALLY PAID OR PAYABLE BY YOU FOR THE DABIR PRODUCT THAT GAVE RISE TO SUCH LIABILITY. THE FOREGOING LIMITATIONS SHALL APPLY EVEN IF THE PROVISIONS OF THIS AGREEMENT FAIL OF THEIR ESSENTIAL PURPOSE.

Some jurisdictions do not allow the exclusion or limitation of special, indirect, incidental or consequential damages, so the above limitation or exclusion may not apply to you.

THE WARRANTIES SET FORTH HEREIN ARE IN LIEU OF AND TO THE EXCLUSION OF ALL OTHER WARRANTIES, EXPRESSED OR IMPLIED, INCLUDING BUT NOT LIMITED TO, ANY IMPLIED WARRANTY AS TO THE MERCHANTABILITY OR FITNESS OF THE PRODUCT FOR A PARTICULAR PURPOSE OR AS TO ITS PERFORMANCE.

Any statement, description or specification in Company's literature is for the sole purpose of identification of products sold by the Company and imparts no guarantee, warranty or undertaking by Company of any kind. Components and accessories not manufactured by Company are not included in this warranty and may be warranted separately by their respective manufacturers. Some jurisdictions may not permit this disclaimer so the above disclaimer may not apply to you.

National Statutory Rights

Consumers have legal rights under applicable national legislation governing the sale of consumer goods. Such rights are not affected by the warranties in this Limited Warranty.

No Other Warranties

No Dabir dealer, agent, or employee is authorized to make any modification, extension, or addition to this warranty.

Registration

You do not need to register the product for the Limited Warranty to be effective.

Miscellaneous

This limited warranty shall be governed by and construed in accordance with the laws of State of Illinois, United States of America, as if performed wholly within the state and without giving effect to the principles of conflict of law. If any portion hereof is found to be void or unenforceable, the remaining provisions of this limited warranty shall remain in full force and effect. This Limited Warranty constitutes the entire limited warranty extended by Dabir Surfaces, Inc. with respect to Dabir Patient Support System.

13.0 Contact Information



NOTE: Electronic copies available at www.dabir-surfaces.com/IFU

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Patents:

US - 9,216,122; 8,863,338.

