

MR6401 CPR Sensor

Instructions for Use



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Product Introduction

The CPR sensor is intended to provide real-time CPR feedback for patients at least 8 years old or above 25kg weight. It displays the depth and rate of chest compression as well as interruption time. The CPR sensor should be used in healthcare facilities by clinical professionals trained in CPR and use of the device.

Safety Information

WARNING


- **Do not use the CPR sensor on patients under 8 years old or below 25kg weight.**
- **The CPR sensor is used for single patient at a time.**
- **The CPR sensor can be use together with Mindray defibrillator and Mindray monitor supporting the CPR function.**
- **When the CPR sensor is used together with a defibrillator, make sure to follow the defibrillator manufacturer’s instructions. Stop compressions, remove hands from the CPR sensor and remain clear of all patient contact during defibrillation or when otherwise required, in accordance with a proper defibrillation protocol.**
- **When performing CPR on a patient lying on a mattress, a backboard must be used to limit the amount of compressed depth which is absorbed by the mattress. Depending on characteristics of the mattress, backboard and patient, the compensation depth does not guarantee that the patient chest is compressed by 50 mm.**
- **The battery indicator lighting in red indicates a low battery. To ensure the CPR sensor is ready for operation in an emergency treatment, you should charge the battery in time. Do not interrupt CPR when the battery indicator lighting in red during the emergency treatment.**
- **Do not interrupt CPR in any case, such as low battery or self-test error. Continue CPR without**

- When cleaning or disinfecting the CPR sensor, avoid the CPR sensor connector.

Product Specifications

WARNING

- The CPR sensor may not meet the performance specifications if stored or used outside the specified temperature and humidity ranges.

	Degree of protection against electrical shock	Type CF defibrillation proof	
	Type of protection against electrical shock	<ul style="list-style-type: none"> ■ Used alone: Class II, equipment energized from an internal electrical power source. ■ Used together with the defibrillator or monitor: Class II, equipment energized from a specific or internal electrical power source. 	
	Degree of protection against harmful ingress of water	IP55	
	Drop height	1.5 m	
	Degree of protection against hazards of explosion	The equipment is not suitable for use in the presence of a flammable anesthetic mixture with air with oxygen or nitrous oxide.	
	Mode of operation	Continuous	
	Temperature	0°C to 50°C	-30°C to 70°C
	Relative humidity	10% to 95%, non-condensing	10% to 95%, non-condensing
	Barometric	57.0kPa to 106.2kPa	57.0kPa to 106.2kPa
	Input voltage	5 to 12V 	
	Power consumption	Not applicable	
B	Capacity	≥230 mAh	
	Voltage	3.8 V	
	Run time	<ul style="list-style-type: none"> ■ At least 3 hours when the CPR sensor works continuously at a temperature of 25°C±5°C with a fully-charged battery. ■ At least 30 days when the CPR sensor is in the sleeping status. ■ At least 1 hour after the battery indicator is in red light. 	
	Charge time	At most 1.5 hours to a full charge when a depleted battery is charged at a temperature of 25°C±5°C.	

	Sensor size	< 150mm × 63mm × 20m	
	Compression area	< 92mm × 53mm × 19mm	
	Adhesive mount area	≤ 98mm × 45mm	
	Sensor weight	≤ 220g (including battery, without CPR sensor cable)	
	Compression depth	Measurement range	0.0 to 8.0 cm
		Effective range	1.5 to 8.0 cm
		Accuracy	±0.5 cm or ±10%, whichever is greater
		Resolution	0.1 cm
		Refreshing rate	≥ 0.5 Hz
	Compression rate	Measurement range	40 to 160 cpm (compressions per minute)
		Effective range	40 to 160 cpm (compressions per minute)
		Accuracy	±2 cpm (compressions per minute)
		Resolution	1 cpm
		Refreshing rate	≥ 0.5 Hz
	Interruption time	Measurement range	0 to 300 s
		Effective range	0 to 300 s
		Resolution	1 s
		Refreshing rate	≥ 0.5 Hz

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The device meets the requirements of IEC 60601-1-2. For more information, see the operator's manual of the defibrillator or monitor used together with this device.