Shenzhen JCR Medical Technology Limited Company

Customer First
Quality First

jcr MEDICAL 金成锐医疗 Shenzhen JCR Medical Technology Limited Company

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Disposable/ReusableSPO2 sensor
Accessories Brochure

Customer First, Quality First

Content

Disposable SPO2 sensor probes

Reusable SPO2 sensor probes

SPO2 Extension cable

SPO2 chip

Company Profile

Shenzhen JCR Medical Technology Limited Company founded in 2009, is located in the China Shenzhen special economic zone. We are manufacturing IBP transducers, SPO2 probes, Temperature probes, Tourniquets, Disposable Pressure Pump, ECG Cables, other medical tube and related accessories, related extension cables and related components .We are also distributor of the TE sensor.

Our products include IBP Transducers Series and Disposable Temperature Sensor Probes Series, Reusable Temperature Sensor Probes Series, Disposable SPO2 Sensor Probes Series, Reusable SPO2 Sensor Probes Series, compatible with all major brands of monitors IBP Cables Series, Temperature Extension Cables Series, SPO2 Extension Cables Series, Tourniquet, ECG Cables, NIBP Cuff, Pressure Pump, Medical tubing, Central Venous Catheter Kit Disposable Brain Electrode, Y-connector, manifolds, ECG electrode, Umbilical cord clamp, Drainage catheter kit, Ureteral stent, Heparin cap, Disposable cervical ripening ballon, catheter sheath, Suction tube and etc. We can provide customers with fully customized products, also provide our standard products.

Our factory covers an area of 12000 square meters,with 5000 square meters in accordance with China GMP standard 100000 grade clean workshop and 10000 grade clean laboratory .Our company is equipped with UV oven curing, accurate test system, super stable sealing machine and other equipment to produce finished products. At present, it can manufacture more than 400,000 sets per month.Mature production technology ,good quality ,and short lead time, 100% final test ,to provide customers with ODM,OEM and customization services.

Our factory has high precision electronic horizontal injection molding machine and vertical injection molding machine, automatic packaging machine, blister packing machine and EO sterilization equipment, complete production line dedicated to sterile medical devices. Our company was rated as a national high-tech enterprise and technologically advanced 'little giant' enterprises in Guangdong Province. We also passed TUV ISO13485, CFDA and CE.

Our company adheres to the business philosophy of "people-oriented, technology development", adheres to the business policy of "customer first, quality first", focuses on the application of sensors in electronic medical devices, and is committed to providing customers with the best solutions. JCR Medical will always sincerely cooperate with domestic and foreign manufacturers as before, and look forward to working hand in hand with friends to make joint efforts for the development of the global medical industry.

Disposable SPO₂ sensor series

Basic performance of product

◎ Lighting tube 660 nm/905 nm/940 nm, maximum output power: 2 mw;
◎ SPO2 test range: 70% ~ 100%; accuracy: ± 3% when 70% ~ 89%, ± 2% when 90% ~100%;
◎ Pulse rate test range: 30 ~ 245 bpm; accuracy: ± 3 bpm when 30 bpm-245 bpm;
◎ The maximum allowable temperature of the probe in contact with human body does not exceed 41℃.

Application method

This product shall be used in combination with the required model: For the matching compatible equipment, the degree of protection against electric shock of its applied part shall be at least F-type applied part.

Use 70% isopropyl alcohol for disinfection. Do not use undiluted bleaching agent (5%-5.25% sodium hypochlorite) or other unspecified detergent since they will cause permanent damage to the probe.

Dip a clean dry gauze into 70% isopropyl alcohol and use it to wipe the surface of the patient sensor and cable. Wipe the surface of patient sensor and cable witha clean dry gauze.

◎ Remove the dust liner from the probe end and find the transparent window, below the window. The best position for optics to use this product is the index finger.

The sensor can also be used on the little or middle finger and other fingers or big toe if there is an inconvenience.

Caution: When selecting a transducer site, it is preferable to select an extremity that does not have an arterial line, blood pressure cuff, or transfusion cannula.

◎ Adjust the direction of this product so that the dashed line in the sensor is in the center of the fingertip Wrap the tape without the end of the cable around the fingertip.

Note: Be sure to secure the cable to the back of your hand.

◎ Fold the cable end towards the finger so that the plastic window is directly opposite, and then firmly wrap the tape around both sides of the finger.

Plug this product into the saturation tester and confirm whether it is operated correctly as described in the tester operation manual.

Note: If the sensor cannot stably track the pulse condition, it may be because it is improperly placed, or the sensor is placed too thick, too thin, or has significant pigmentation, or the color is too light due to other reasons (e.g., due to the use of externally colored products such as nail polish, stains, or tinted foundation), so that normal light cannot be transmitted. In any of these cases, reposition the sensor or use a different type of sensor on a different site.

Intended use

The product is indicated for single use to collect and transmit signal of SPO2 and pulse rate of patient, with compatible monitors or oximeter.
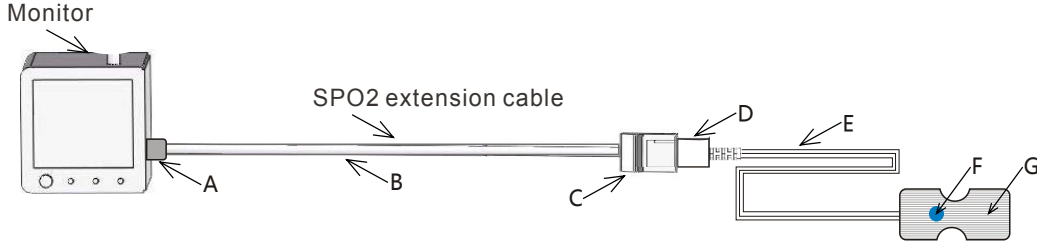
Operation principle, function and structure

The patient sensor end of the product is attached on the patient's index finger (Thumb, middle finger or others, great toes), and the device connector is connected to compatible monitors or oximeter with SPO2 extension cord. The product adopts 660nm red light and 905nm Infrared light as incident light source, tests light intensity through tissue to obtain SPO2 value as well as pulse rate.

Disposable SPO2 probes reference cable:

connect patient	Blue Sponge	Skin stretch fabric	PE breathable film	Foam	Bondib, butterfly type	Skin stretch fabric	Bondib
connect the monitor can be customized							
NELL COR 7P	J78S002P	J78S002M	J00S001U	J78S002N	J78S004M-1	J78S010M	J78S007M
NELL COR 9P	J78S001P	J78S001M	J78S001U	J78S001N	J78S009M-1	J78S009M	J78S001M
GE Ohme da	J00S001U	J83S001M	J83S001U	J83S001N	J83S002M	J83S003M	J83S004M
Nihon Kohden 9P	J92S003P	J00S001U	J92S001U	J92S003N	J92S003M	J92S004M-E	J92S003M

Application of disposable SPO2 sensor

Monitor

SPO2 extension cable

D
E
A
B
C
F
G

A— connect monitor; B— Length: 3.2m   TPU or PVC; C— Connect SPO2 probes;

D— SPO2 probes: E— Length: 0.9m, PVC; F— SPO2 chip, Local chips and TE chips;

G—Connect patient, various material can be selected.

Reusable SPO2 sensor series

5 different types for below eachseries available :Adult clip ,Pediatric clip ,Adult soft , Pediatric soft ,Neonate wrap.

Basic performance of product

◎ Lighting tube 660 nm/905 nm/940 nm, maximum output power: 2 mw;
◎ SpO2 test range: 70% ~ 100%; accuracy: ± 3% when 70% ~ 89%, ± 2% when 90% ~100%;
◎ Pulse rate test range: 30 ~ 245 bpm; accuracy: ± 3 bpm when 30 bpm-245 bpm;
◎ The maximum allowable temperature of the probe in contact with human body does not exceed 41.

Application method

This product shall be used in combination with the required model: For the matching compatible equipment, the degree of protection against electric shock of its applied part shall be at least F-type applied part.

◎ Place this probe over the patient's index or other finger.
◎ Check to ensure that the optical element is aligned with the test site and flattened.
◎ Arrange the cable and wrap it with a belt to prevent the probe from falling off.
◎ Plug this product into the saturation tester and confirm whether it is operated correctly as described in the tester operation manual.

Note: If the sensor cannot stably track the pulse condition, it may be because it is improperly placed, or the sensor is placed too thick, too thin, or has significant pigmentation, or the color is too light due to other reasons (e.g., due to the use of externally colored products such as nail polish, stains, or tinted foundation), so that normal light cannot be transmitted. In any of these cases, reposition the sensor or use a different type of sensor on a different site.

Intended use

The product is indicated for reuse to collect and transmit signal of SpO2 and pulse rate of patient, with compatible monitors or oximeters.
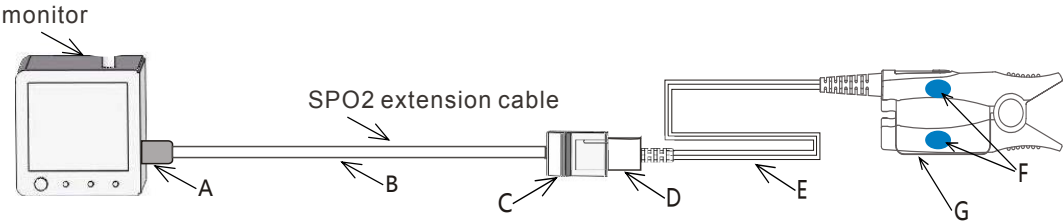
Operation principle, function and structure

The patient sensor end of the product is clamped the patient's index finger with (Thumb, middle finger or others, great toes), and the device connector is connected to compatible monitors or oximeters with SPO2 extension cord. The product adopts 660nm red light and 905nm Infrared light as incident light source, tests light intensity through tissue to obtain SPO2 value as well as pulse rate.

Reusable SPO2 probes reference table:

Connect monitor		NELLCOR 7P	NELLCOR Oximax 7P	Philips 12P	Philips 8P	Mindray 6P	Mindray T series	GE11P
connect the monitor can be customized								
Adult Clip		J78S001B	J78S001B-1	J84S004B	J84S001B	J69S001B	J69S002B	J37S003B
Adult soft		J78S001S	J78S002S	J84S003E	J84S001S	J69S001S	J69S003S	J37S001S
Infant neonate wrap		J78S001E	J78S002E	J84S002S	J84S005E	J69S004E	J69S003E	J37S002E
Child soft		J78S001C	J78S002C	J84S002C	J84S001C	J69S002C	J69S003C	J37S001C
Child clip		J78S001D	J78S002D	J84S002D	J84S001D	J69S002D	J69S003D	J37S001D
Adult ear clip		J78S001V	J78S002V	J84S002V	J84S001V	J69S001V	J69S002V	J37S001V

Application of reusable SPO2 sensor

monitor

SPO2 extension cable

A— connect monitor; B— Length: 3.2m   TPU or PVC; C— Connect SPO2 probes;
D— SPO2 probes: E— Length: 1.2m, PVC; F— SPO2 chip, domestic chips and TE chips;
G—Adult Clip(Adult clip ,Pediatric clip ,Adult soft , Pediatric soft ,Neonate wrap).
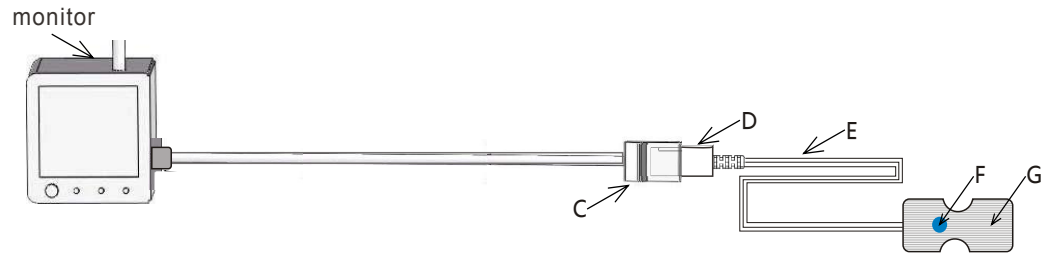
Disposable/Reusable accessories
—— SPO2 extension cable

The SPO2 extension cable is used to connect the disposable SPO2 sensor and monitor to complete the signal connection and conversion. Different brands of monitor correspond to different SPO2 extension cables. We have SPO2 extension cables suitable for all kinds of brand monitors, such as Mindray, Philips, GE, etc.

Application of extension SPO2 cable connect reusable SPO2 probes

monitor

A— Connect monitor;
B— Length: 3.2m TPU;
C— Connect SPO2 probes

Extension cable reference table:

Connect monitor	Philips 12P	Philips 8P	Mindray T series	Mindray 6P	Siemens 7P	Datex 10P	GE 11P
connect the monitor can be customized							
SPO2 extension connect	J52S001L	J52S002L	J69S002L	J69S001L	J1FS002	J28S001L	J37S001L

Display view

Philips 8P SPO2 sensor extension cable

Philips 12P SPO2 sensor extension cable

Mindray T Series SPO2 sensor extension cable

Mindray 6P SPO2 sensor extension cable

SPO2 sensor chip >>>

660/905nm,660/940nm,2 or 3 Pin available

SPO2 sensor chip

Certifications

Registeration Certigicate for

Production Enterpriser Licence of Medical

TE Authorization Letter

Medical Device Record Voucher

Registeration Certigicate for

Medical device production product registration form

ISO 13485

TE Authorization Letter

EC Certificate