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Medical Devices



INTERNATIONAL CERTIFICATION



CE 0434

Hyup Sung Medical products have obtained the CE 0434. The CE 0434 is proof that a medical device meets the European Requirements for safety. Our products are manufactured in accordance with ISO 13485

ISO 13485

Hyup Sung Medical received ISO 13485 : 2003 certificate. ISO 13485 is an ISO standard, published in 2003, that represents the requirements for a comprehensive management system for the design and manufacture of medical devices. This standard supersedes earlier documents such as ISO 46001 and ISO 46002(both 1997), the ISO 13485 published in 1996 and ISO 13488(also 1996).

While it remains a stand-alone document, ISO 13485 is generally harmonized with ISO 9001. A fundamental difference, however, is that ISO 9001 requires the organization to demonstrate continuous improvement, where as ISO 13485 requires only that they demonstrate the quality system is implemented and maintained.

Introduction

Hyup Sung Medical Co., Ltd. was established 1982. Its purpose is to raise the standard of medical care by manufacturing high quality medical products. As the first to successfully urine drainage system in Korea, Hyup Sung is one of the leading medical manufacturers in Korea today.

All of Hyup Sung's products are manufactured under the Quality Management System, which follows the Highest Quality Standards on today. It doesn't matter where you are, or what you need, we will do our best to supply you with the highest quality cost effective projects to meet your requirements.

QUALITY OF HYUP SUNG MEDICAL CO., LTD.

We will be a leading manufacturer and supplier of high quality medical devices and our hope is to improve treatment and care to patient worldwide.

URINE DRAINAGE PRODUCTS

- URINE DRAINAGE BAG
- URINE METER
- URINE LEG BAG
- BILE BAG
- DRAIN TUBE
- FEEDING BAG
- FEEDING TUBE
- GASTRIC LAVAGE BAG

SURGERY AND WOUND DRAINAGE SYSTEMS

- MED VAC (CLOSED WOUND DRAINAGE SYSTEM, PVC)
- MED VAC (CLOSED WOUND DRAINAGE SYSTEM, SILICON)
- EXTERNAL VENTRICULAR DRAINAGE (EVD) BAG
- EXTERNAL VENTRICULAR DRAINAGE (EVD) CATHETER
- INSPIRO METER
- CHEST DRAINAGE BOTTLE
- THORACIC CATHETER

RESPIRATORY PRODUCTS

- EPIDURAL SET
- CENTRAL VENOUS CATHETER(CVC) SYSTEM
- TRACHEOSTOMY TUBE
- ENDOTRACHEAL TUBE
- AIR WAY
- C.V.P MONITORING TRAY (C.V.P MANOMETER)
- SPINAL FLUID MANOMETER
- OXYGEN MASK
- NASAL OXYGEN CANNULA / OXYGEN EXTENSION LINE
- PVC SUCTION CATHETER
- LATEX SUCTION CATHETER / NELATON CATHETER
- SILICONE TRACHEOSTOMY TUBE
- SILICONE REINFORCED ENDOTRACHEAL TUBE
- SILICONE FOLEY CATHETER
- SILICONE LEVIN TUBE

I.V ADMINISTRATION SET

- IV FLOW CONTROL SET
- BURETTE INFUSION SET
- MINI VOLUME LINE
- T-PORT (CONNECTOR)
- CONTROL PRESSURE LINE
- CT CONNECTION SET
- BLOOD TRANSFUSION SET
- HEMO FILTRATION BLOOD LINE SET
- HEMO DIALYSIS CATHETER
- IV EXTENSION TUBE
- MULTI-IV SET

ACCESSORIES FOR INFUSION AND TRANSFUSION

- 3 WAY STOPCOCK
- 3 WAY STOPCOCK EXTENSION TUBE
- MANIFOLD
- MANIFOLD HOLDER
- LUER LOCK INJECTOR CAP (HEPARIN CAP)
- SPECIMEN TRAP
- I-CONNECTOR, Y-CONNECTOR
- NAME BAND
- EYE SHIELD
- PVC & SILICON TUBE
- NEEDLE BOX
- 3 WAY EXTENSION TUBE WITH BACKFLOW PREVENTION
- IRRIGATION SPOID
- TUR Y SET (TRANSURETHRAL RESECTION Y SET)
- MIDIFIX (ADHESIVE BANDAGE)

HYUNGSUNG
MEDICAL CO.,LTD.

MEDICAL DEVICES

- DIGITAL URINE METER (HS-UM1) 3
- ENTERAL FEEDING PUMP (HS-100) 5



DIGITAL URINE METER (HS-UM1)

CAPACITY

	DESCRIPTION	REMARKS
	MINIMUM VOLUME	1ml
RANGE	SETTING	1Hr~72Hr
	TOTAL VOLUME	1~9999ml
PRECISION	ROUGHLY 7%~10% tolerance	
ALARM	LOWE BATTERY, AC POWER OFF, 1 HOUR RESERVATION, TIME REACHING	
POWER	AC220V~230V, 50~60Hz & DC9.6V	
CIRCUMSTANCE	TEMPERATURE : +10~40°C HUMIDITY : NOT MORE THAN 70%	
POWER CONSUMPTION	ROUGHLY 40 VA	

SUMMARY

- Digital Urine meter is designed to be used with disposable urine bag set.
- The body is a reusable digital device which can measure urine drainage situation automatically.
- This avoids human errors and considerably decreases the work load of the healthcare staff.



DIGITAL URINE METER (HS-UM1)

DIGITAL URINE METER (HS-UM1)



URINE BAG SET(HS-DU-2000)
CAPACITY : 500ML / 2000ML



COMPONENT PARTS

NO	PART NAME	PART NO. or MATERIAL	SPECIFICATION	QTY
1	BODY	HS-UM1	DIMENSION : 251MM X 160MM X 160MM POWER : AC 220V~230V 50~60Hz POWER CONSUMPTION : 40VA INTERNAL POWER : DC 9.6V 1600mAh WEIGHT : ROUGHLY 2kg (WITHOUT URINE BAG SET)	1
2	BATTERY	NI-MH	DC9.6V 1600mAh HOURS OF USE : ROUGHLY 1 HOUR	1
3	POWER CONNECTING CORD	KKDK	KS C60227-5 IEC53 AC 220V~230V, 50~60Hz	1
4	SOFTWARE	V301. HEX	SW VERSION 1.0	1
5	URINE BAG SET	HS-DU-2000	SEPARATELY APPROVED SET	1

HOW IT WORKS

When urine drains from patients, it reaches to chamber through inlet tube. Sensor detects it and stepping motor which is preset by controller works and the urine is transported to urine bag by driven cam connected to internal gear. Urine volume is calculated according to motor speed. Internal microcontroller controls operation status, current urine volume and warning function. And sensor monitors the status of urine. All the datas show on display and functions are selected by buttons.



DIGITAL URINE METER (HS-UM1)



ENTERAL FEEDING PUMP (HS-100)

CAPACITY

	Description	
TARGET INFUSED VOLUME	FLOW RATE	1~300mL/h
	VOLUME RANGE	1~999mL
	INFUSED VOLUME	1~999mL
FLOW PRECISION	± 10%	
ALARM	EMPTY, LOW BATTERY, AC POWER FAILURE, TOTAL VOLUME REACH	
POWER SUPPLY	AC220~230V, 50~60Hz	
OPERATION CONDITION	TEMPERATURE : +10~40°C,	
	RELATIVE HUMIDITY : 30~70%	
POWER CONSUMPTION	ROUGHLY 13.5VA	
DIMENSION	232(L)° × 122(W)° × 151(H)mm	
NET WEIGHT	ROUGHLY 1.8 Kg	

This device is used in hospitals and alternate care where patients need to be given steady and continuous nutrition solution. This is easy to use with a simple interface and keypad.



ENTERAL FEEDING PUMP (HS-100)

ENTERAL FEEDING PUMP (HS-100)



FEEDING BAG (HS-DFB-1000)
CAPACITY : 1000ML



HOW IT WORKS

Feeding tube and tube compressing plate are in close contact while driving cam is worked by step motor. Nutrition solutions are sent to patient's body from feeding bag by interlocking movement of feeding drive mechanism. Operating condition, infusion volume and warning functions are controlled by Internal microcontroller. Drop sensor monitors operational status and flow. Display shows these figures. And functions can be chosen by buttons.

ENTERAL FEEDING PUMP (HS-100)