



DEPARTMENT OF HEALTH & HUMAN SERVICES

Public Health Service

Food and Drug Administration  
9200 Corporate Boulevard  
Rockville MD 20850

FEB 22 2006

Mr. Stephen Goldner, JD, RAC  
Vice President, Regulatory Affairs  
Integrated Sensing Systems, Incorporated  
391 Airport Industrial Drive  
Ypsilanti, Michigan 48198

Re: K050783

Trade/Device Name: ISSYS Drug Flow Monitor®  
Regulation Number: 21 CFR 880.2420  
Regulation Name: Electronic monitor for gravity flow infusion systems  
Regulatory Class: Class II  
Product Code: FLN  
Dated: February 13, 2006  
Received: February 16, 2006

Dear Mr. Goldner:

We have reviewed your Section 510(k) premarket notification of intent to market the device referenced above and have determined the device is substantially equivalent (for the indications for use stated in the enclosure) to legally marketed predicate devices marketed in interstate commerce prior to May 28, 1976, the enactment date of the Medical Device Amendments, or to devices that have been reclassified in accordance with the provisions of the Federal Food, Drug, and Cosmetic Act (Act) that do not require approval of a premarket approval application (PMA). You may, therefore, market the device, subject to the general controls provisions of the Act. The general controls provisions of the Act include requirements for annual registration, listing of devices, good manufacturing practice, labeling, and prohibitions against misbranding and adulteration.

If your device is classified (see above) into either class II (Special Controls) or class III (PMA), it may be subject to such additional controls. Existing major regulations affecting your device can be found in the Code of Federal Regulations, Title 21, Parts 800 to 898. In addition, FDA may publish further announcements concerning your device in the Federal Register.

Please be advised that FDA's issuance of a substantial equivalence determination does not mean that FDA has made a determination that your device complies with other requirements of the Act or any Federal statutes and regulations administered by other Federal agencies. You must comply with all the Act's requirements, including, but not limited to: registration and listing (21 CFR Part 807); labeling (21 CFR Part 801); good manufacturing practice requirements as set forth in the quality systems (QS) regulation (21 CFR Part 820); and if applicable, the electronic product radiation control provisions (Sections 531-542 of the Act); 21 CFR 1000-1050.

This letter will allow you to begin marketing your device as described in your Section 510(k) premarket notification. The FDA finding of substantial equivalence of your device to a legally marketed predicate device results in a classification for your device and thus, permits your device to proceed to the market.

If you desire specific advice for your device on our labeling regulation (21 CFR Part 801), please contact the Office of Compliance at (240) 276-0115. Also, please note the regulation entitled, "Misbranding by reference to premarket notification" (21CFR Part 807.97). You may obtain other general information on your responsibilities under the Act from the Division of Small Manufacturers, International and Consumer Assistance at its toll-free number (800) 638-2041 or (301) 443-6597 or at its Internet address <http://www.fda.gov/cdrh/industry/support/index.html>.

Sincerely yours,



Chiu Lin, Ph.D.

Director

Division of Anesthesiology, General Hospital ,

Infection Control and Dental Devices

Office of Device Evaluation

Center for Devices and

Radiological Health

Enclosure

## Indications for Use

510(k) Number (if known): K050783

Device Name: ISSYS Drug Flow Monitor®

Indications For Use: The ISSYS Drug Flow Monitor is a passive monitoring device for gravity infusion. The unit uses a flow sensor to measure the amount of liquid through the infusion line and displays the flow rate and total volume administered to the patient. Flow rates and volumes are recorded, and if the flow rate or volume falls outside the preset range, both a visible and audible alarm is triggered. This monitor is indicated for use in cases where the flow rates are between 5 and 200 mL/hr. The accuracy of the monitor is +/- 20% at 5 mL/hr and +/- 5% at 200 mL/hr. For use with IV drug solutions administered by gravity. WARNING: DO NOT USE WITH BLOOD OR BLOOD PRODUCTS.

Prescription Use   X    
(Part 21 CFR 801 Subpart D)

AND/OR

Over-The-Counter Use \_\_\_\_\_  
(21 CFR 801 Subpart C)

(PLEASE DO NOT WRITE BELOW THIS LINE-CONTINUE ON ANOTHER PAGE IF NEEDED)

Concurrence of CDRH, Office of Device Evaluation (ODE)

*[Signature]*

General Hospital,  
Control Dental Devices

K450783