Wireless pH Capsule

This consists of pH sensor, battery, wireless transceiver module, and shell.

Size (including the fixed body): 26.5*6.0*5.5mm(L*W*H)
Quality: <2g
Effective Working Time: ⩾96 hours
Operating Voltage: 3.0V
Operating Current: 10mA
Sampling Interval: 3 seconds

Environmental Conditions

Operating Temperature: 5-40℃
Operating Humidity: ⩽100%
Storage Humidity: ⩽80%
Storage Temperature: 5-40℃
Atmospheric Pressure: 700hpa-1060hpa

Data Recorder

Type Ⅰ

Type Ⅱ

This consists of antenna, recording box, and memory bank.

Operating Voltage: 4.5V Operating Current: 10mA
Analog Communication Distance: ⩾12m
Continuous Working Time: ⩾96hours

Data Analysis Workstation

Provide feature analysis of pH value, export diagnosis report and other basic operational functions.

Fixing and Conveying Appliance

Distributor:

CE Registrtion No:HD 60039017 0001
Specification are subject to change without prior notice.

金山科技 JINSHAN SCIENCE & TECHNOLOGY
All GI Solution Supplier
www.jinshangroup.com
Headquarter: No. 18,Nishang Avenue, Lianglu Industrial zone, Yubei District, Chongqing China, 100020
Tel:+86-23-86098111 Fax:+86-23-86098777
Shenzhen Office (Overseas Dept.): Room710, Fangda Building, Keji 12th Road South, High-Tech Industrial Park, Nanshan, Shenzhen 518057 China
Tel:+86-755-26582579, Fax:+86-755-26582895

OMOM® pH Capsule
Wireless Monitoring System

OMOM pH Capsule Wireless Monitoring System

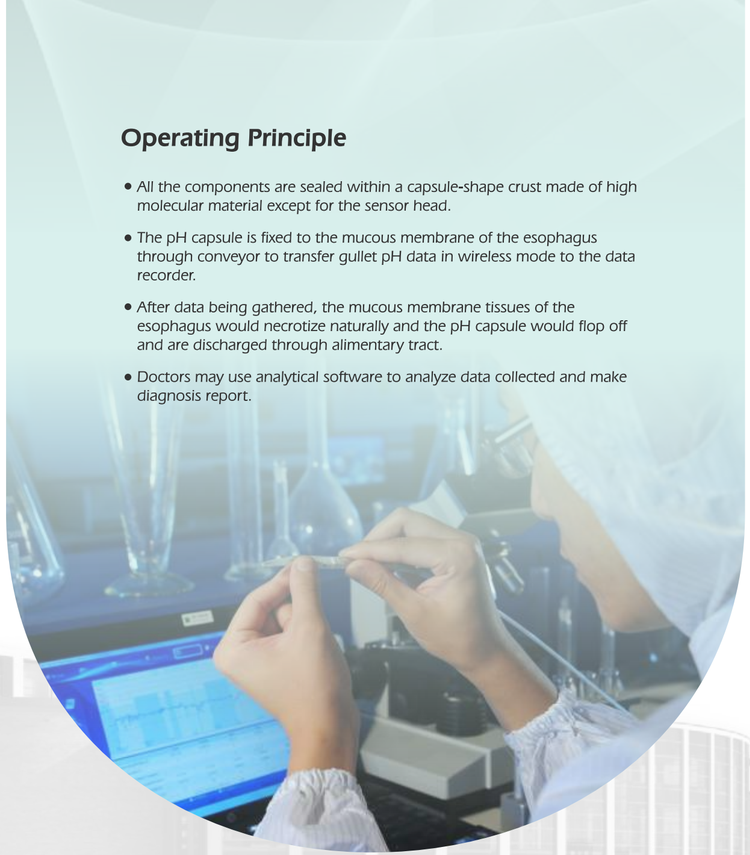
金山科技 JINSHAN SCIENCE & TECHNOLOGY
All GI Solution Supplier

pH Capsule
Wireless Monitoring System

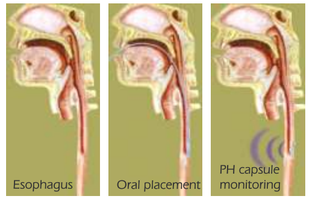
"pH Capsule Wireless Monitoring System" is a new minimally invasive, painless and wireless monitoring system for pH value in esophagus. It's a tool for the diagnosis of gastro-esophageal reflux disease (GERD), it overcomes the problem of traditional pH monitor of pain and non-free moving, able to monitor the pH value in esophagus for 96 hours continuously. Due to the longer monitoring time, it enable doctors to monitor the feedback after patients take medicine, and to adjust treatment schemes efficiently.

Operating Principle

- All the components are sealed within a capsule-shape crust made of high molecular material except for the sensor head.
- The pH capsule is fixed to the mucous membrane of the esophagus through conveyor to transfer gullet pH data in wireless mode to the data recorder.
- After data being gathered, the mucous membrane tissues of the esophagus would necrotize naturally and the pH capsule would flop off and are discharged through alimentary tract.
- Doctors may use analytical software to analyze data collected and make diagnosis report.



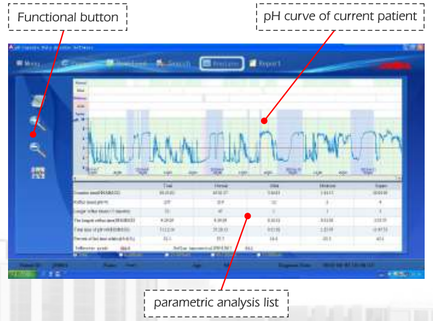
Capsule Placement Procedure



- Calibrating the pH capsules
- Oral placement
- Data recording for 96hours monitoring time.
- Diagnosis disease and export case report.

Features for Software Platform

- Simply and easy to use;
- Flexible option of pH value display for all monitoring time, every 24h, or certain period of time;
- Capable of giving DeMeester score;
- Allowing magnified pH chart display.



Benefits to Clinicians

- Easy to place pH capsule in esophagus.

Patient Friendly

- Allows patients to maintain regular diet and activities
- Minimizes throat and nasal discomfort associated with conventional catheter-based pH systems
- Eliminates social embarrassment that accompanies traditional pH testing with no visible indication that pH test is taking place

96 Hours of pH Data

- Allows physicians to extend pH data collection to 96 hours, nearly 72 hours beyond the recording capability of conventional catheter systems
- Detects more abnormalities than 24 hours alone providing the additional data needed for an accurate GERD assessment
- Increases number of recorded symptoms associated with reflux events significantly when recording time is extended beyond 24 hours.
- Increases likelihood of documenting relationships between atypical symptoms and reflux events with 96-hour monitoring period, said a study published in The American Journal of Gastroenterology.