# HW-EM219
## ENTERAL FEEDING PUMP

016 · 12:30

500 ml/h

600ml

3次

1h 30min

0
70
kPa

# Healthward

## Healthier
## your life

# HW-EM219

## FEATURES AND HIGHLIGHTS

### Technical parameters

- Feeding speed range and minimum stepping speed
  (1~1200) ml/h, minimum stepping: 1 ml/h.

- BOLUS speed, preset volume setting range, and minimum stepping speed
  (1~1200) ml/h

- Minimum stepping
  1 ml/h. Preset volume: (1~100) ml, minimum stepping: 1 ml.

- FF (Fast Flow) rapid infusion speed, preset
  volume setting range, and minimum step rate:
  (1~1200) ml/h minimum step
  1 ml/h. Preset volume: (1~99999.9) ml, minimum step: 1 ml.

- Preset volume setting range
  (1~99999.9) ml, with a minimum increment of 1 ml.

- Accumulated volume range
  (0~99999.9) ml, with a minimum increment of 1 ml.

- Flow rate accuracy　　　　Accuracy error within ±5% (calibrated)

- Blockage alarm pressure levels
  ≤40 (low), ≤60 (medium), ≤80 (high) kPa, a total of 3 levels

- Language/Voice Switching Function
  Switch freely between Chinese and English languages and voices.

- Feeding modes
  Continuous feeding mode, intermittent feeding mode, retrograde feeding mode.

- Volume (voice alarm)　　　　　　Adjustable from 0 to 7

- Brightness　　　　　Adjustable from 10 to 100 levels

- Treatment records
  Should be able to save the latest 50 treatment plans and set any historical treatment plan as the current one.

- Night mode
  Can set the time period for night mode. When the system enters the specified time period for night mode, the volume and brightness will adjust to the settings for night mode.

- Scheduled automatic shutdown function
  When the nutrition pump is idle, you can set a scheduled automatic shutdown time to allow the machine to shut down automatically, simplifying device operation.

- Historical record export function
  Can export saved historical records via USB drive.

- Automatic screen lock function
  Off, 1-10 minutes, adjustable in 11 levels.

- Forgotten operation alarm duration setting
  1-10 minutes, adjustable in 10 levels.

- Approaching completion alarm time
  1-30 minutes, adjustable in 30 levels.

- Speed switching function during operation can change the feeding speed of the machine in continuous feeding mode.

- Feeding remaining time display function
  During the feeding process, the preset volume and remaining feeding time will alternate in display.

- Historical records
  Can store up to 2000 entries of historical records (including feeding records, operation records, and alarm records).

- Memory function
  After shutdown, automatically saves the last feeding session's settings.

- Standby mode
  When the machine is not in operation, you can enter standby mode by pressing the "Power" button.

- Startup self-check function
  Upon startup, checks the pressure, storage, communication, and other functions of the device.

- Alarms
  Low backup battery level alarm, low battery level alarm, empty battery alarm, power loss alarm, abnormal operation alarm, tube blockage alarm, feeding completion alarm, standby task completion alarm, empty bottle alarm. Forgotten operation alarm, incorrect tube installation alarm, approaching completion alarm, device malfunction alarm, disconnected battery alarm, temperature exceeding limit alarm, uninstalled heater alarm, KOR completion alarm, and others.

- Prompts
  Parameter exceeded limit, feeding started, AC power unplugged, speed exceeded limit, preset volume exceeded limit, etc.

- AC input　　　　　　　AC100-200V, 50/60Hz

- Internal battery rated voltage
  11.1V, capacity 2600mAh With a new fully charged battery, the nutrition pump can continuously operate at a rate of 25ml/h for 6 hours Removable.

- Classification according to the type and degree of protection against electric shock　　　　　　Class I CF type

- Device input power　　　　　　0.8-0.1A

- Fuse　　　　　Specification T3.15A/250VAC

- Waterproof level　　　　　　IPX2

- Operating environmental conditions:
  Temperature: +5°C to +40°C
  Relative humidity: 20~90%
  Atmospheric pressure range: 86.0 kPa~106.0 kPa

- Transportation and storage environmental conditions:
  Temperature: -20°C~+55°C
  Relative humidity: <93%
  Atmospheric pressure range: 50.0 kPa~106.0 kPa
  Dimensions: 128mm (L) * 145mm (W) *
  212mm (H) without the fixing bracket
  Weight: 1.2kg (net weight without the fixing bracket)
  Dual CPU system

## Functions

- Alarm Function
  Graphical and voice alarms provide intelligent and intuitive safety notifications, ensuring a secure and efficient operation.

- Startup Self-Check
  The system completes a self-check upon startup, ensuring a safe operation.

- Low Noise
  Equipped with a German-imported ultra-quiet motor-driven IC and a Japanese-imported motor, ensuring low noise and minimal vibration.

- Additional Features
  Micro-dosing, continuous, and timed dosage control.
  Real-time display of cumulative feeding volume for easy clinical observation.
  Optional Wi-Fi connectivity enhances efficiency in medical supervision. Supports automatic switching between Chinese and English.
  Advanced intelligent alarm system with animated alarm operation guidance. Multiple adjustable pressure levels with real-time dynamic pressure display.
  Convenient history record storage function.
  IP34 high dust and water resistance design for optimal device safety.
  Various working modes: continuous, intermittent, and backflush.

## Working principle

The enteral feeding pump operates by controlling a DC motor through a pump, generating positive pressure to uniformly and accurately deliver nutritional fluids into the patient's gastrointestinal tract.

### Design
Compact in size, lightweight, and easy to operate.

### Handle
Distinctive and prominent L-shaped handle design for easy transportation.
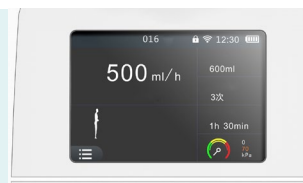
### Casing Material
Brand new ABS engineering plastic molds injection-molded for shaping.

### Screen Design
Featuring a 3.5-inch high-definition large screen display, crucial information is clear at a glance. With dual control input via touchscreen and keyboard, the operation is simple and convenient.

### Shuttle Technology
Shuttle knob design for simple and user-friendly operation.

### Internal Architecture
Utilizing an aluminum-magnesium alloy bracket, the product is stable, reliable, and possesses excellent shock resistance. It is also convenient for mobility.

### Pump Door
Featuring a fully transparent pump door design, providing clear visibility of the nutrition delivery process.

### Battery
Detachable battery compartment for convenient replacement. The battery serves as a backup power source, ensuring continuous medication delivery in case of AC power interruption.

# Healthward`

17800 CASTLETON ST STE 180.CITY OF INDUSTRY CA 91748

+1 (603) 416-3063 · 24/7

export@health-ward.com

www.health-ward.com

General catalogue