

Patrol Pump

The Patrol Pump is used for enteral nutrition and is adequate for adult and pediatric patients who can tolerate a flow rate of 1 to 300 mL/hr. The pump is designed to deliver only liquid enteral nutrition products.

Special Features

Lockout Feature

When the LOCK feature is activated, set rate, set dose and clear volume cannot be changed.

Programmable Hold

The HOLD timer can be set for a period from 1 to 90 minutes. This feature is a reminder to set back the dial to RUN. When the time is up, an alarm sounds.

Safe-T-Valve

If the flow rate is higher than the set rate or if the tubing is not placed properly, the pump will stop. A safety valve on the pump set also stops the flow if the tubing is dislodged.

Control Dial Settings

SET DOSE

Allows dose to be limited.

- Dose can be set from **1 to 9999 mL**.
- Completion of this dose will trigger the **doSE FED** alarm.
- Pump will operate without a dose selected (0 mL) if this feature is not necessary for the patient.

SET RATE

Allows Flow Rate to be set.

- Flow rate can be set from **1 to 300 mL/hr** (accuracy $\pm 10\%$ or 5 mL, whichever is greater).

OFF/CHARGE

Stops all pump functions.

- Battery always charges when plugged.
- Pump will retain rate (**SET RATE**), dose (**SET DOSE**) and volume fed (**VOL FED**) values when turned off unless the pump is unplugged while in the Off/Charge setting.

RUN

Activates feeding.

- Visual display shows **flow rate** and the dash scrolling from top to bottom indicates that the pump is running.
- With flow rates less than 180 mL, it is normal for rotor movement to be intermittent (this regulates flow rate, conserves battery life).

HOLD

Stops pump action when action must be temporarily interrupted.

- An alarm will sound after 5 minutes and the message **SEL run** will be displayed.
- **Hold** timer may be programmed for a duration of **1 to 90 minutes**.

VOL FED

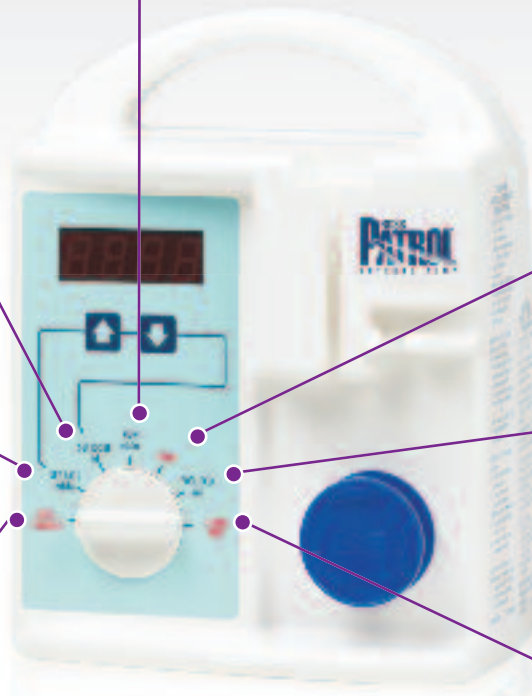
Shows volume delivered.

- Stops pump action.

CLEAR VOL

Stops pump action.

- Resets the **volume fed to 0 mL**.
- Will beep 4 times before clearing the volume. If dial turned away before the 4th beep, volume will not be cleared.



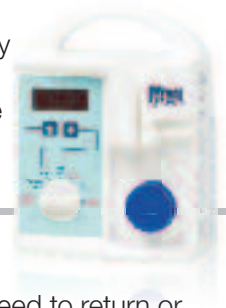
Alarms & Troubleshooting

Visual Display	Condition or Problem	Corrective Action
no Flo	Occlusion Empty container	<ol style="list-style-type: none"> 1 Turn dial to HOLD 2 Correct the situation 3 Be sure sight chamber is not overfilled 4 Turn dial to RUN
doSE FED	Dose complete VOL FED = SET DOSE	<ol style="list-style-type: none"> 1 Turn dial to HOLD 2 SET DOSE 3 CLEAR VOLUME 4 Turn dial to RUN
FrEE FLO	Gross uncontrolled overdelivery	<ol style="list-style-type: none"> 1 Remove pump from patient 2 Verify pump set is properly installed 3 Confirm no drops fall when in HOLD 4 Check accuracy (see below)
SEL rAtE	Dial turned to run without selecting the rate	<ol style="list-style-type: none"> 1 Turn dial to SET RATE 2 Enter a rate, using the up and down arrows 3 Turn dial to RUN
SEL run	HOLD time-out	<ol style="list-style-type: none"> 1 Turn dial to RUN
E1-E9	Electronic error	<ol style="list-style-type: none"> 1 Remove pump from patient 2 Contact Abbott
LO bAt	Approximately 30 minutes of battery operation remain	<ol style="list-style-type: none"> 1 Turn dial to HOLD, then RUN 2 Plug for 12 hours before using the pump on battery, you may continue feeding while pump is plugged in
H5	HOLD countdown	<ol style="list-style-type: none"> 1 Dial on HOLD position, by default, will hold for 5 minutes 2 If desired, program the hold timer for 1-90 minutes by depressing the up or down arrow
LOC	Lock-out disables SET RATE, SET DOSE and CLEAR VOLUME dial settings	<ol style="list-style-type: none"> 1 Turn dial to SET RATE 2 Depress up and down arrows simultaneously to activate or deactivate this function
8888	Display test	<ol style="list-style-type: none"> 1 Wait

Maintenance

To prevent contamination, pump set should be replaced as needed or at least every 24 hours. In the case of a Ready-to-Hang® container, the hang time can be up to 48 hours if a new pump set is used. Pump set is for single patient use only.

There is no routine calibration or adjustment procedure with the Patrol Pump. However, pump accuracy can be checked. To do so, fill a new feeding container with Ensure®, Osmolite® or tap water. Start the pump and let it run for 15 minutes. Then run fluid into a graduated cylinder for 30 minutes and compare to set rate on pump. Refer to the procedure in the operating manual to confirm accuracy. Alcohol must not be used to clean the drop detector.



Support

Our team of professionals at Abbott Nutrition Helpline can answer your questions or assist you if you need to return or replace a pump. If you are calling to report a pump malfunction, the pump serial number and details of the malfunction will be required. If a patient was connected to the pump during the pump malfunction, you will be asked information on the patient's status in order to comply with regulatory obligations.

Abbott Nutrition Helpline • 1-866-767-7411 (option #1)