



Home Parenteral Nutrition Mini Rythmic™ PN+

Freedom without clinical compromise

 micrel



As home-care becomes an increasingly vital step in a patient's care journey, the products used to treat and support them must also evolve. Choosing an infusion device is no longer simply about what will work best in the clinic, but what will empower your patients to live a mobile and meaningful life at home too.

As a company that specialises solely in the development of industry transforming infusion devices, we were compelled to meet the challenges that self-care presents – to create a device that truly improves the infusion experience for clinicians and their patients.

“Home parenteral nutrition treatment aims to rehabilitate the patient and restore quality of life¹”





Self-care confidence at home

Patients may be depending on their pump for all of their nutritional needs. When they are able to return home, they need to have complete confidence in their infusion device. The Mini Rythmic™ PN+ simplifies self-administration for patients, while providing automatically updated data to the clinic via MicrelCare to enable therapy monitoring.



Intuitive programming

Enables self care due to simple set up



Easy to use

Easy set up and administration set loading



Remote monitoring

Full pump and infusion history available to download



Full ambulatory range

Our range of accessories and carrying solutions meet every need



Effective alarm management

A built-in air elimination filter safely reduces nuisance alarms

Monitor patients anytime, anywhere

MicrelCare is Micrel's web-based care management platform. It gives a view of patients' infusion status with automatically updated data sent wirelessly, so that HCPs can make truly informed decisions about how to progress.



GPRS

Wireless and mobile, automatically updated 24/7



Alerts

Clinical and device alerts via SMS and email



Safety in paediatrics

Parents and HCPs can monitor infusion when away from the child



Infusion monitoring

Identify over or under infusions and potentially find the root cause²



Healthcare Network

Individual access to patient treatments from different HCPs



Tracking infusion pressure

Quick and effortless tracking of line pressure for optimal infusion conditions at all times



Patient History

Compare infusions against patient history



Easy Reporting

Quickly retrieve all-cohort data

SMS and email alerts

SMS or email alerts notify of changes that HCPs and relatives might need to react to. This gives remote access to the knowledge needed to help give a patient excellent parenteral nutrition safely. All data is hosted as an independent unit in a highly secure, ISO/IEC 27001 certified data centre, ensuring data is stored and transferred at the highest level of protection available.



A truly ambulatory nutrition solution

Patients report that using a portable PN pump increases their quality of life, and even report “being happier” as a result.³

The Mini Rythmic™ PN+ enables mobility in a variety of ways:

Ultra-portable

Discreet, lightweight infusion

Extended battery life

24hrs/up to 6L* of infusion when using the battery pack

Variety of carrying solutions

Complete range of carrier sizes and designs, from 500ml up to 6L

* Based on a continuous delivery mode and indicative of battery life, depending on temperature conditions, infusion rate, battery brand and backlight.





Making infusion better for all ages

Old or young, tall or petite, we believe ambulatory infusion care should be available for everyone. Mini Rythmic™ PN+ is available with a range of accessories and rucksacks designed for both adults and children, for greater portability for all.

Protective design

- With the filter safely housed inside the pump

Cyclic settings⁴

- Ability to ramp-up infusion to avoid hyperglycaemia or taper down to avoid hypoglycaemia

Text warnings

- Carers can receive alarm notifications directly to their phones via MicrelCare

Tamper prevention

- Protection code prevents unwanted tampering with the infusion

Keeping children's needs in mind

- For greater peace of mind for parents and carers
- In house filter protected during play

In the clinic. At home. On the move...

The Mini Rythmic™ PN+ delivers accuracy, safety and speed in a clinical setting, making it suitable for high-demand, continuous infusion treatments. It's accurate and safe, but it's so simple to use, lightweight and fits into a backpack, providing patients with the confidence and freedom they need to successfully self-care at home.

High-demand clinical performance

High rate infusions

- From 0.1 to 400.0 ml/hr

Multi bag infusions

- Multi spikes infusion lines

Simple multiple programming

- A variety of infusion modes to choose from 3 occlusion limits
- KVO and 'delay start' capabilities

Safe by design

- In-line pressure sensor, air-in-line detector, air eliminator filter





Real life doesn't wait



When coupled with MicrelCare, the Mini Rythmic™ PN+ provides care-givers with the automatically updated data they need to make informed clinical decisions.

Real-time data via a secure network

The data is sent via a secured network accredited for healthcare information data transfer to enable therapy monitoring as often as needed. Patients receiving parenteral nutrition may be concerned about weight gain, bloating or swelling.²

They might also be nervous about reductions to their solutions or concerned that their pump is over or under infusing. MicrelCare gives caregivers access to data that they wouldn't normally be aware of, enabling them to adjust the patient's regimen if needed.

micrelcare.net

Go forward with confidence

Every aspect of the Mini Rythmic™ PN+ has been considered to ensure that it is designed with both patients and healthcare professionals like you in mind, and is a truly user-friendly infusion pump. We also offer support with implementation and online training to help users get the most out of their new device.

Our online training is available in multiple languages and it covers a number of therapies. The online support videos demonstrate how to use the devices in detail. It's an efficient way to supplement ongoing training of healthcare providers and support patients.



micrelmed-elearning.com

Advanced technical support



Repair per case

Our pumps come with a repair per case technical service as standard

2
years*

Preventative maintenance

Benefiting the hospital biomed and your budget



Device-specific training

Enabling biomedical engineers to undertake repairs in-house



Technical support helpline

We're on-hand to help when needed



Warranty extension

The ability to extend your warranty, for additional peace of mind

"I value their staff, they are very professional, enthusiastic about their company. They like what they do and they think about the patient needs." 2018 Customer Perception Survey⁵

Customer satisfaction

European customers reported being very satisfied with our performance:

- ✓ **Easy to work with**
- ✓ **Implementation management & support**
- ✓ **Knowledgeable sales teams**



1. Staun M. et al. ESPEN Guidelines on Parenteral Nutrition: Home Parenteral Nutrition (HPN) in adult patients. *Clinical Nutrition*. 2008;28:467-479. 2. Small M. et al. Using Remote Monitoring to Detect Infusion Related Issues in Patients on Home Parenteral Nutrition. *Clinical Nutrition*. 2015;34:29. 3. Saqui O, Fernandes G, Allard J. Quality of Life Analysis During Transition from Stationary to Portable Infusion Pump in Home Parenteral Nutrition Patients: A Canadian Experience. *Nutrition in Clinical Practice*. 2014;29(1):131-141. 4. Stout S. et al. Metabolic Effects of Cyclic Parenteral Nutrition Infusion in Adults and Children. *Nutrition in Clinical Practice*. 2010;25(3):277-281. 5. Micrel customer perception survey. May 31 2018.

*2 years or 400 days of operation, whichever comes first.



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Discover a patient-centred solution

To find out more about Micrel Mini Rythmic™ PN+ go to micrelmed.com

