

# MP $mlh$ +

The portable syringe pump  
meeting new clinical demands



- Simple ml/hr set up
- Error reduction features
- Event log
- Syringe brand and size selection
- Meets all standards
- Empties completely 20ml syringes



# MP mlh+

The Micrel MP mlh+ is truly ambulatory with a robust design, a trouble-free set up and accurate delivery in ml/hr.

A clear informative display giving easy alarm identification with a dual micro-processor construction gives the user confidence in drug delivery applications requiring portability.

MP mlh+ accommodates new safety standards including the NHS National Patient Safety Agency recommendations (NPSA/2010/RRR019).

The ultra low battery consumption makes the MP mlh+ ideal for both homecare and hospital treatments.

- Meets IEC Standard 60601-2-24 including multi point syringe detection
- Uses manufacturer's standard syringes (BD, Terumo, Braun etc..) from 10 to 50ml
- Empties completely 20ml syringes, including BD
- High precision flow rates in ml/hr (0.1 ml/hr steps) with prevention of inaccurate infusion delivery.
- Event history log to store and review pump activities
- Configurable options to customize functions and eliminate rate setting errors
- Adjustable occlusion settings to match specific drug therapies
- Anti-tampering features including keypad lock and fixed rate options
- Lightweight (220g with batteries)
- Long battery life (2 to 3 months continuous)

## ACCESSORIES

Standard accessories are supplied with each device include a soft carrying bag and plastic holster for ambulatory use, plastic carrying case, operating instructions and a set of batteries with optional lock box.



## APPLICATIONS

- Pain control therapy
- Immunoglobulin therapy
- Chemotherapy
- Thalassaemia treatment

## SPECIFICATIONS

- Dimensions: 170 x 61 x 32 mm
- Weight: 220g including batteries (Alkaline LR03 AAAx6, rechargeable optional)
- Battery life: More than 70 full infusions at intermediate rate
- Rate: 0.1 – 28.0 ml/hr, in 0.1 ml/hr steps (for BD-20ml)
- Syringes: Each variant dedicated to specific syringes
- Drive Accuracy:  $\pm 2\%$
- Downloadable event log
- Fail-safe dual micro-processor motor monitoring
- Backlit LCD confirms correct operation with alarm and warning indicators

### Configurable:

- Accurate bolus delivery with lock out feature
- Configurable occlusion level
- Lockable flow rate
- Priming

Multi points syringe dislodged detection, End of infusion, Pre-end of infusion, Occlusion, System failure, Low battery Depleted battery, Pump on hold, Pump tamper warning, Priming indication and Bolus delivery / Lockout (optional)

CE 0120

Micrel is ISO9001/ISO13485 - SGS UK certified

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Medical Devices

Experts in ambulatory infusion devices

[www.micrelmed.com](http://www.micrelmed.com)