



a real continuous flow



LENUS *pro*[®]

For a better quality of life

LENUS^{pro}[®]

Implantable infusion pump with electronic flow monitoring and positioning system for refilling.

The **LENUS pro** implantable infusion pump has been specially designed for areas of treatment requiring the utmost safety and reliability, such as the infusion of prostacyclines, morphine and baclofen.

Constant flow precision in minimal quantities combined with occlusion detection allows the immediate detection of blockages in the catheter or access, thereby guaranteeing rapid investigation and rectification of the cause of the fault.

Its low weight and minimal overall volume have proven to be a great advantage and are of benefit to the patient. The straightforward and compact glass chip design guarantees a laminar long-term stable flow of medication in a broad pH value range.

An additionally built-in positioning system helps the doctor to localise the filling septum in order to perform the septal puncture with precision. Refilling takes place using the tried and tested Surecan[®] (22G) cannula. The placement of the catheter exit at a distance from the bolus is a structural means of preventing accidental catheter puncture.

Puncture of the bolus septum is usually carried out to check the catheter position using contrast agents during X-ray examination. This also makes the radio-opaque bolus clearly visible. The special bolus and filling cannulas also provide additional security against confusing the septa. The doctor selects the optimum combination of medication flow and reservoir size depending on individual therapy requirements and specific patient needs.

LENUS^{pro}[®]

- Extremely precise and constant flow rate
- Integrated electronic flow monitoring
- Positioning system to easily find the filling septum
- Operational reliability with glass chip capillary in a broad pH value range
- The radio-opaque bolus septum is clearly recognisable
- Excellent wearing comfort due to its low weight and optimum volume
- Optimum pump design in biocompatible titanium



Technical data

Catheter dimensions	I.D.	0.3 mm
	E.D.	1.3 mm
	L	800 mm
Service life of the septa	500 punctures guaranteed when using approved cannulas.	
Diameter of filling septum	8 mm	
Diameter of bolus septum	6 mm	
Overall diameter of the pump	78 mm	
Flow rate	2.0 ml / 24h (other flow rates on request)	
Precision	+/- 5%	
Occlusion detection at approx.	1.3 bars	
Application	Intravenous	

Manufacturer: tricumed Medizintechnik GmbH, Germany

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