

Data sheet **Module MVP PT/ST** VOLUMETRIC INFUSION PUMP



The Module MVP fits your requirements of safety and ease of use.

The Module MVP can be integrated into all Orchestra configurations and is designed for clear and simple differentiation between syringe pump and infusion pump channels.



**FRESENIUS
KABI**

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MODULE MVP PT/ST

PERFORMANCE

FLOW RATE RANGE	From 1 to 1000 ml/h with the PT version in normal mode. From 1 to 1500 ml/h with the ST version in normal mode. From 0,1 to 100,0 in micro-infusion mode with the PT and ST versions.
FLOW RATE ACCURACY	± 5% with recommended sets.
PROGRAMMING MODES	Rate only, rate + volume, volume/time, ramp up/ramp down, primary/secondary, induction, sequential, bolus, micro-infusion.
VOLUME LIMIT	From 1 to 9999 ml in normal mode, from 0,1 to 999,9 in micro infusion mode.
INFUSION TIME	Settable from 1 minute to 96 hours.
KVO RATE	3 ml/h, automatically triggered at end of volume limit.
AIR DETECTION	Set at 250 µl over a period of 15 minutes.
FREE-FLOW PROTECTION	Automatic safety clamp integrated into the pump, detection of aberrant flow rate.
DPS: DYNAMIC PRESSURE SYSTEM	Line disconnection alarm, indication of pressure increase and decrease in the infusion line.
OCCLUSSION DETECTIONS	Upstream & downstream.
OCCLUSSION THRESHOLD	Set at 750 mmHg, settable from 100 to 900 mmHg.
AUTOMATIC REDUCTION OF BOLUS AFTER RELEASE OF AN OCCLUSSION	Bolus < 0,2 ml, whatever the rate.
KEYBOARD LOCK	Programmable in configuration.
DROP SENSOR	Detection of empty container, detection of aberrant flow rate.
HISTORY MODULE	Up to 768 dated events.
ALARMS AND PREALARMS	Infusion control: set in place, volume limit reached, empty bottle, air in line, upstream occlusion, downstream occlusion, set disconnection, end of pause, door open. Device control: discharged battery, low battery, interface failure, technical malfunction. Maintenance: periodic servicing.

TECHNICAL SPECIFICATIONS

PUMPING SYSTEM	Second generation linear wave peristaltic pumping system.
DIMENSIONS / WEIGHT	H 10,5 x W 31,5 x D 13 cm / ~ 2,4 kg.
EXTERNAL SUPPLY	7,15 Vdc (with the Base or the Mainy Mod).
BATTERY / BATTERY LIFE	Lead acid battery ~ 6 V 1.1 to 1.3 Ah / 2 hours 125 ml/h. Display of real battery life in hours and minutes.
COMPLIANCE, STANDARDS	Complies with EN 60601-1, EN 60601-1-2 and EN 60601-2-24. CE 0459 Marking in compliance with the EEC 93/42 European Medical Device Directive.
WATERPROOFNESS	Protection against splashing liquid: IP 34.
ELECTRICAL COMPLIANCE	Protection against leakage current: CF type. Protection against electric shocks: class II.

SETS RANGE

Silicone Sets from the Fresenius Intradrop Diabolo range.
PVC Sets and Non-PVC Sets from the VS range.



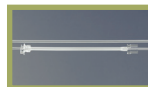
The Dynamic Pressure System - DPS - informs, thanks to a warning light, of pressure variation when there is a risk of occlusion or a possible leak in the infusion line.



The Module MVP's ease of setting and monitoring are provided by a user-friendly software thanks to a graphic LCD that displays explanatory messages illustrated with graphics and thanks to a LED for essential information.



Module MVP offers a large range of setting modes (primary/secondary, volume/time, bolus, micro, sequential, induction, ramp up/ramp-down...) enabling the use of all protocols: from the simplest to the most specific.



Module MVP can operate with a large range of sets, PVC or silicone sets, depending on the version (PT or ST). Please contact us for further information.

Orchestra

Infusion Workstation composed of Bases and Infusion Modules adapted to every clinical practice.

Module DPS
Modular Syringe Pump



Module DPS Visio
Modular Syringe Pump



Module MVP
Modular Volumetric Pump



Base A
Data concentrator



Base Intensive
Unique 2 channel relay function, Customised drug library, Infusion history management.



Base Primea
Simultaneous control of both hypnotic and analgesic effects in TCI.



Orchestra Mobile stand

Whatever may be the architecture of your department, Orchestra Mobile Stand provides the choice of customised accessories.



Disposables

A wide range for use with Module DPS and Module MVP. Catalogue is available from our Customer Service.

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Due to our policy of continuous product development as well as changes in standards, the features described are subject to change. Please contact us for current situation.

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