

Data sheet **Module DPS** SYRINGE PUMP



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

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



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MODULE DPS

PERFORMANCE

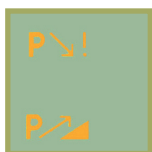
FLOW RATE RANGE	From 0,1 to 1200 ml/h, in 0,1 ml/h increments.
ACCURACY	± 1 % on mechanism (measured-time: > 1 hour, minimum 1 ml).
SYRINGE CAPACITIES	5, 10, 20, 30/35, 50/60 ml.
TWO OCCLUSION PROGRAMMING MODES PRESSURE ALARM LEVELS	Variable threshold mode: numerically selected occlusion pressure alarm. Pre-selection mode: 3 pre-selected occlusion levels.
OCCLUSION PRE-ALARM	Imminent occlusion warning.
DPS - DYNAMIC PRESSURE SYSTEM	Line disconnection alarm, indication of pressure increase and decrease in the infusion line, increase pressure alarm.
DOUBLE PRESSURE DISPLAY	Numerical values of the line pressure and the selected limit, graphic representation of the pressure in the infusion line and of the pressure limit.
VOLUME LIMIT	From 0,1 to 999,9 ml in 0,1 ml increments.
BOLUS RATE	From 50 ml/h to 1200 ml/h, programmable.
INDUCTION PROGRAMMING	Rate: from 0,1 to 1200 ml/h, volume: from 0,1 ml to 120 ml.
ANTI-BOLUS SYSTEM	Reduces significantly bolus after occlusion release (0,2 ml max).
MAINTENANCE	Preventive maintenance warning based on the customers downloading.
HISTORICAL	Event login.
DRUG NAMES	15 drug names programmable by configuration.
ALARMS AND PREALARMS	Syringe position control: syringe barrel clasp check, plunger head detection, anti-siphon system check, locking handle. Infusion control: occlusion pressure prealarm, occlusion pressure alarm, end of infusion prealarm, end of infusion alarm, volume limit prealarm, volume limit alarm, KVO rate. Device control: disengaged driving mechanism alarm, low battery prealarm, discharged battery alarm, battery capacity display in hours and minutes, unconfirmed programming, technical malfunction alarm (auto-test, rotation), drive system advance check, watchdog check, RS232 interface failure, unlocked Module.

TECHNICAL SPECIFICATIONS

DIMENSIONS / WEIGHT	H 10,5 x W 31,5 x D 13,5 cm / ~ 2,3 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 / 7 hours minimum at 5 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.

DISPOSABLE RANGE

SE 2400 Y, two channel extension set. PVC, L 150 cm	Cat. # z072017f
SE RELAY, extension set with 3-way stopcock. PVC, L 150 cm	Cat. # z072021f
SE 20, extension set. PVC, 20 cm	Cat. # z072023f
PE 200 orange, opaque extension set. Polyethylene, L 200 cm	Cat. # z9000951f
PE 150, extension set. Polyethylene, L 150 cm	Cat. # z9004011f
PE 200, extension set. Polyethylene, L 200 cm	Cat. # z9000981f



The dynamic pressure system - DPS - warns, thanks to a LED, of pressure variation when there is a risk of occlusion or a possible leak in the infusion line.



The infusion continuity protection is provided by means of an occlusion prealarm and a disconnection alarm.



The reduction of the occlusion alarm delay is obtained by setting the alarm threshold numerically according to the pressure measured. The Anti-Bolus system is slaved to the measurement of the counterpressure value at the time of the occlusion alarm.



A wide range of syringe capacities and types ensures the adaptation to all paediatric and adult protocols. The Module DPS recognises automatically syringe size and selects directly the syringe brand.



The ease of use keypad and clearly differentiated LEDs simplify and make safer day to day care.



3 Bolus modes: Bolus with maximum rate for rapid administration, with simultaneous display of the infused volume; **Induction program** for infusing a predefined volume at the most appropriate flow rate; **Manual bolus** to inject a large volume quickly by manipulating the plunger manually. In all 3 modes, the volume administered is included in the total volume infused.

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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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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