

# Ambulatory pump

TECHNOLOGY FOR HEALTH



## **CRONO S-PID4 100**

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## PUMP DESCRIPTION

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Main technical features of the pump:

- The possibility of choosing from three modes:
  - Time Mode (T), allows you to set the infusion duration for the therapy;
  - Flow Rate Mode (F), allows you to set the infusion flow rate to be used during the therapy;
  - Flow Rate Cycle Mode (FRC), allows you to set a ramp composed of several flows that vary at predetermined time intervals.
- Bluetooth interface for communication with CronoManagementTouch.

The pusher mechanism acts directly on the plunger of the reservoir, allowing for an accurate administration of the drug. The pump administers shots of 20 µl, at intervals which depend on the chosen flow rate. If the programmed flow rate is increased, the time interval between the shots decreases proportionally.

CRONO S-PID4 100 features a graphical OLED display for improved user interaction which shows practical information viewable by the healthcare personnel and the patient about the settings, operation and diagnostics of the pump.

CRONO S-PID4 100

## TECHNICAL FEATURES

PUMP DIMENSIONS	88 x 59 x 56 mm
PUMP WEIGHT	140 g, including battery.
BATTERY	Lithium CR 123A 3V (battery life approx. 60-80 infusions).
RESERVOIR	Dedicated, with 100 ml capacity and "Luer-Lock" universal safety fitting.
T MODE	Total infusion time programmable from 20 mins to 20 hrs in the following way: <ul style="list-style-type: none"><li>• from 20 min to 1 h with 5 min increments;</li><li>• from 1 to 20 h with 15 min increments.</li></ul>
F MODE	Flow rate programmable from 5 ml/h to 300 ml/h in the following way: <ul style="list-style-type: none"><li>• from 5 to 10 ml/h with 0,1 ml/h increments;</li><li>• from 10 to 300 ml/h with 1 ml/h increments.</li></ul>
FRC MODE	FRC programmable parameters: <ul style="list-style-type: none"><li>• Number of flows from 2 to 5</li><li>• Interval from 5 to 20 min with 5 min increments;</li><li>• Flows:<ul style="list-style-type: none"><li>» from 5 ml/h to 10 ml/h with 0,1 ml/h increments;</li><li>» from 10 ml/h to 300 ml/h with 1 ml/h increments.</li></ul></li></ul>
FLOW RATE ACCURACY	+/- 3 %
MAXIMUM OCCLUSION PRESSURE	3,2 bar
POST-OCCLUSION BOLUS	Up to 4 ml
ELECTRONIC CIRCUITS	Managed by twin microcontrollers for improved safety.
MEMORY	All selected values are automatically stored in a memory which is retained even if the battery is removed from the device.
DISPLAY	Colour graphical OLED display, 96x64 pixels.
MOTOR	Coreless DC motor. The microcontroller controls the rotation speed using an infrared encoder.
SETTINGS LOCK	Two configurable levels.
SAFETY CIRCUITS	They ensure that the device is correctly operational. In case of a fault they generate acoustic signals and messages shown on the display.
INGRESS PROTECTION RATING OF THE PUMP	IP 42.
SUPPLIED STANDARD EQUIPMENT	Ambulatory pump with reservoir, infusion pump carry-case, elastic belt, collar strap, fabric case, 2 batteries, battery cover opening tool and user guide.
GUARANTEE	Two years for manufacturing defects.