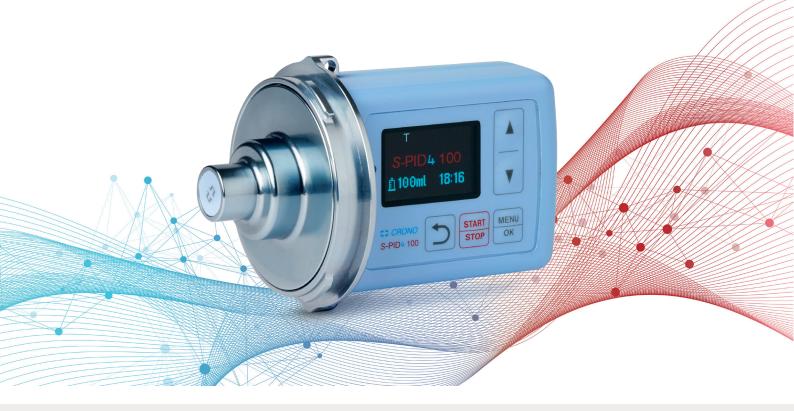


## **Ambulatory pump**

## **TECHNOLOGY FOR HEALTH**



## CRONO S-PID4 100

CRONO S-PID4 100 is an ambulatory pump, designed for the subcutaneous administration of immunoglobulins, which uses specific 100 ml syringes called réservoirs. Its small size and reduced weight make CRONO S-PID4 100 ideal for home use, thus giving the patient the freedom to engage in everyday activities during the treatment.

## 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  $20 \,\mu$ l, 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.

| <b>TECHNICAL FEATURES</b>             |   |
|---------------------------------------|---|
| 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:<br>• from 20 min to 1 h with 5 min increments;<br>• from 1 to 20 h with 15 min increments.  |
| FMODE                                 | Flow rate programmable from 5 ml/h to 300 ml/h in the following way:<br>• from 5 to 10 ml/h with 0,1 ml/h increments;<br>• from 10 to 300 ml/h with 1 ml/h increments.  |
| FRC MODE                              | FRC programmable parameters:<br>• Number of flows from 2 to 5<br>• Interval from 5 to 20 min with 5 min increments;<br>• Flows:<br>» from 5 ml/h to 10 ml/h with 0,1 ml/h increments;<br>» from 10 ml/h to 300 ml/h with 1 ml/h increments. |
| 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.  |
|                                       |   |

APPLIED MEDICAL TECHNOLOGY