

# CRONO S-PID4 20

REF: PS4AP



## Ambulatory infusion pump

### INTENDED PURPOSE

**CRONO S-PID4 20** is an ambulatory pump for subcutaneous infusions of immunoglobulins and drugs in general.

### PUMP DESCRIPTION

**CRONO S-PID4 20** is a medical device.

Its small size and reduced weight make **CRONO S-PID4 20** ideal for home use, thus giving the patient the freedom to engage in everyday activities during the treatment.

**CRONO S-PID4 20** uses dedicated 10 and 20 ml reservoirs.

Main technical features of the pump:

- The possibility of choosing from two different operation modes:
  - Time mode (T), with infusion duration setting selectable by the user
  - Flow rate mode (F), with infusion flow rate setting selectable by the user
- Bluetooth interface for communication with CronoManagementTouch

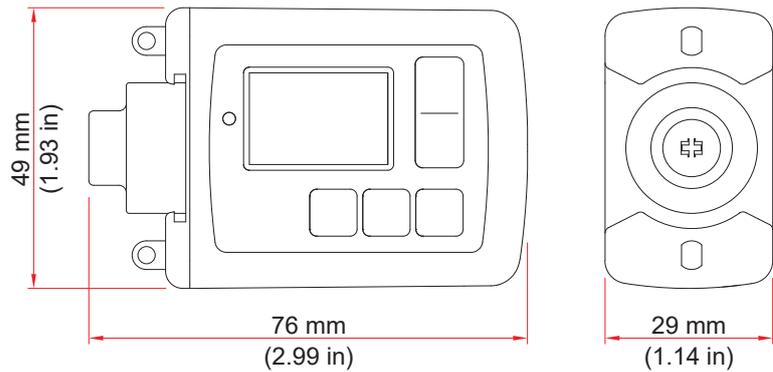
The pusher mechanism acts directly on the plunger of the reservoir, allowing for an accurate administration of the drug.

The pump administers 5 µl shots 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 20** 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.

# TECHNICAL FEATURES

## Dimensions



<b>Weight</b>	115 g (4.06 oz.), including battery	
<b>Power supply</b>	CR123A 3V lithium battery	
<b>Battery life</b>	About 90 infusions	
<b>Display</b>	Colour OLED 96x64 pixels	
<b>Ingress protection</b>	IP 42	
<b>Acoustic signal pressure level</b>	53 dBA +/- 5 dBA	
<b>Data storage</b>	The value settings and counters are retained even without the battery	
<b>Motor</b>	Coreless DC motor, the rotation of which is controlled by an infrared system	
<b>Electronic circuits with twin Microcontrollers</b>	Ensures a more reliable and safer infusion system	
<b>Safety circuits</b>	They monitor the correct functioning by intervening in the event of faults with acoustic signals and messages on the display	
<b>Single-use reservoir</b>	Dedicated reservoirs with 10 and 20 ml capacity and Luer-Lock universal safety fitting	
<b>Administrable volume</b>	from 1 to 10 ml (10 ml reservoir) from 1 to 20 ml (20 ml reservoir)	
<b>Volume increase</b>	1 ml	
<b>T mode</b>		
<b>Total infusion time (10 ml reservoir)</b>	from 15 min to 1 h	from 1 h to 20 h
<b>Total infusion time (20 ml reservoir)</b>	from 30 min to 1 h	from 1 h to 20 h
<b>Programming increment</b>	5 min	15 min
<b>F mode</b>		
<b>Infusion flow rate</b>	from 1 to 10 ml/h	from 10 to 40 ml/h
<b>Programming increment</b>	0.1 ml/h	1 ml/h
<b>Flow rate accuracy</b>	+/- 2 %	
<b>Prime volume</b>	from 0.1 to 0.5 ml, repeatable up to a maximum of 1.5 ml	
<b>Maximum occlusion pressure</b>	8 bar	
<b>Post-occlusion bolus (ml)</b>	About 1.4 ml	
<b>Warranty</b>	2 years from the date of purchase against any material or manufacturing defects	
<b>Standard equipment</b>	CRONO S-PID4 20 ambulatory pump, Carrying case, Elastic belt, Fabric case, Support strap, 2 Batteries (1 of which in the pump), Accessory for opening the battery compartment, Instructions for use	
<b>Environmental conditions for use</b>	Temperature: +5 ÷ +40 °C Relative humidity: 15% ÷ 90% RH (non-condensing, water vapour partial pressure max 50 hPa) Pressure: 700 ÷ 1060 hPa	
<b>Environmental conditions for storage and transport</b>	Temperature: -25 ÷ +70 °C Relative humidity: 15% ÷ 90% RH	

