

# CRONO S-PID

REF: PS30L



## Ambulatory infusion pump

### INTENDED PURPOSE

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

### PUMP DESCRIPTION

**CRONO S-PID** is a medical device.

**CRONO S-PID** is an union of high technology and innovative design. Its compact size and light weight make it ideal for home use.

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

The main feature of the pump is the flow rate programming mode.

The pump is equipped with a settings lock to prevent incorrect or unauthorised administration.

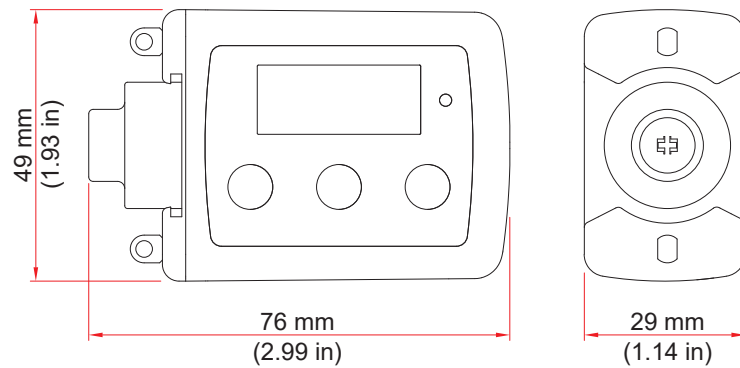
The pusher mechanism, which operates directly on the rubber piston of the reservoir, enables the pump to combine high delivery pressure with excellent precision while administering the drugs.

In the event of occlusion of the delivery set an innovative infusion control system enables the infusion to automatically continue when the occlusion is removed.

**CRONO S-PID** is provided with a liquid crystal display (LCD) which shows practical information to the doctor and patient about the settings, operations and diagnostics of the pump.

# TECHNICAL FEATURES

## Pump dimensions



<b>Pump weight</b>	115 g (4.06 oz.), including battery
<b>Battery</b>	Lithium CR123A 3V (battery life about 90 infusions)
<b>Single-use reservoir</b>	Dedicated with a 10 and 20 ml capacity and a Luer-Lock universal security attachment
<b>Administrable volumes</b>	Programmable: <ul style="list-style-type: none"> <li>• from 1 to 10 ml in increments of 1 ml (10 ml reservoir)</li> <li>• from 1 to 20 ml in increments of 1 ml (20 ml reservoir)</li> </ul>
<b>Prime function</b>	Only available at the start of the infusion. The maximum deliverable volume is 1.5 ml
<b>Flow rate</b>	Programmable: <ul style="list-style-type: none"> <li>• from 0.2 ml/h to 1 ml/h in 0.02 ml/h increments</li> <li>• from 1 ml/h to 10 ml/h in 0.1 ml/h increments</li> <li>• from 10 ml/h to 40 ml/h in 1 ml/h increments</li> </ul>
<b>Shot volume</b>	22 µl (minimum quantity administered at each motor rotation)
<b>Flow rate precision</b>	+/- 2 %
<b>Occlusion pressure</b>	6.0 bar +/- 2
<b>Post-occlusion bolus</b>	About 1.2 ml
<b>Settings memory</b>	All settings are automatically stored in a flash memory which is retained even if the device is left without a battery
<b>Display</b>	Liquid crystal display (LCD) (dimensions 11 x 28 mm; 0.43 x 1.1 in)
<b>Motor</b>	Coreless DC motor, the rotation of which is controlled by an infrared system
<b>Settings lock</b>	Two configurable levels
<b>Electronic circuit with twin microcontrollers</b>	Ensures a more reliable and safer infusion system
<b>Safety circuits</b>	These check that the device is functioning correctly, intervening in the event of any anomaly with sounds and messages on the display
<b>Ingress protection rating</b>	IP 42
<b>Buzzer sound pressure level</b>	53 dBA +/- 5 dBA
<b>Warranty</b>	2 years from the date of purchase against any material or manufacturing defects
<b>Standard equipment</b>	CRONO S-PID ambulatory pump, Carry-case, Elastic belt, Fabric case, Collar strap, 2 Batteries (1 of which in the pump), Battery-cover opening tool, Instructions for use
<b>Environmental conditions for use</b>	+5°C / +40°C 15% / 90% RH (non-condensing, water vapour partial pressure max 50 hPa) 700 hPa / 1060 hPa
<b>Environmental conditions for storage and transport</b>	-25°C / +70°C 15% / 90% RH