

## EASY PUMP® DUAL PNEUMATIC TOURNIQUET

TECHNICAL SHEET

NEW

The new tourniquet from DDM, the **Easy Pump® Dual New Generation**, the only electronic pneumatic tourniquet manufactured in France!



1. Front view



2. Rear view



3. Three-quarter to the left view

#### TECHNICAL SPECIFICATIONS

<b>HOUSING FEATURES</b>	Material	ABS
	Density	1,112 g/cm <sup>3</sup>
	Shock resistance	>25 KJ/m <sup>2</sup>
	Fire resistance	UL94 V-0
	Hardness (shore D)	78
<b>DIMENSIONS</b>	Housing	250(H) x 300(W) x 190(D) mm
	Screen (mm)	153(W) x 85(H) mm
<b>WEIGHT</b>	5,5kg	
<b>LINE</b>	Voltage	100-240 VAC
	Frequency	50-60 Hz
	Power take-off	60 VA
<b>POWER</b>	Pulsed power supply	Input: 90-264 Vac, 47-63 Hz, 1.8- 1A Output: 15Vdc, 4A
<b>FUSES</b>	Power board input	FST2AH/250V
	Power board output	F3.15AH/15V
	Battery	F8AH/12V
<b>BATTERY</b>	Refillable	
	Type	Pb
	Voltage	12 volts
	Amps	4000 mAh
	Loading time	10h
	Autonomy	8h
<b>PUMP</b>	Type	membrane
	Flow	4.6 l/min
<b>PRESSURE</b>	Unit	mmHg
	On duty	1.7 bar
	Adjustment range	0 to 600 mmHg
	Setting accuracy	± 1 mm Hg
	Display accuracy	± 5 mm Hg
	Alarm	Sound and visual
	Number of independent pressure circuits	2
<b>TIMER</b>	Unit	Minutes
	Alarm	Audible and visual programmable
<b>CONNECTIONS</b>	Pneumatic	2 CPC-type female couplers
	Electric	CEE22 connector
<b>MAXIMUM SOUND LEVEL IN OPERATION</b>	52Db	
<b>STORAGE CONDITIONS</b>	Temperature	-5° to 40°C
	Hygrometry	20 to 80%
<b>USING CONDITIONS</b>	Temperature	5° to 40°C
	Hygrometry	20 to 80%
	Atmospheric pressure	79.0 kPa to 106 kPa
	Maximum altitude	2000 m
<b>CE MARKING</b>	CE 0459, notified body: G-MED, MD Class: IIa	
<b>ELECTRIC CLASSIFICATION</b>	CLASS I device: To avoid the risk of electric shock, the electronic tourniquet must be connected only to a mains supply equipped with a protective earth conductor, using the 5-meter power cord supplied. It is forbidden to use a socket with multiple plugs or an extension cord.	

### MAIN MATERIALS USED

The device consists of an ABS PC housing in which the components are fixed to a chassis and then secured to the housing. The materials of the main components are shown in the table below:



Identification of DM materials	Chemical name
Anti-UV anti-abrasion front panel film	X190 TREATED POLYESTER
Housing	Polycarbonate ABS (PC-ABS)
Chassis	Trovidur EC
Chassis support	Aluminum 5083
Tube to Tube fittings	Nylon
Tube (ref SI60)	Silicone
Lead battery	ABS (UK94 :HB)
Connector for equipotential links	Nickel-plated brass
Female connector	Acetal
CPC male connector	Acetal
Tube (ref 29)	PVC
Power board	-
Pump support	Galvanized steel
Pump vibration damper	Synthetic rubber (CR)
ON/OFF switch	Nylon 6.6 PC Copper alloy Silver alloy
Battery door	Aluminum 5083
Front female connector	Brass
USB connector cable	PVC

### EASY PUMP Software

The software complies with the applicable requirements of NF EN 62304 and ISO 14971.

The EASY PUMP software developed by DESSILLONS & DUTRILLAUX operates the functional blocks of the G10904 pneumatic tourniquet and ensures its interface with the user.

Description	Reference
<i>Easy Pump Dual® Pneumatic Tourniquet</i>	<b>G10904</b>

### DDM FRENCH QUALITY

#### CE mark 0459

Tourniquets are Class IIa medical devices. They comply with current European regulations.

#### Customer Technical Support Centre

GSH provides tourniquet maintenance and repair services. Contact our After-Sales Service on: +33 4 42 90 31 31.

#### Warranty

Tourniquets are guaranteed for 2 years (under normal conditions of use). The warranty does not cover faulty maintenance by the user.