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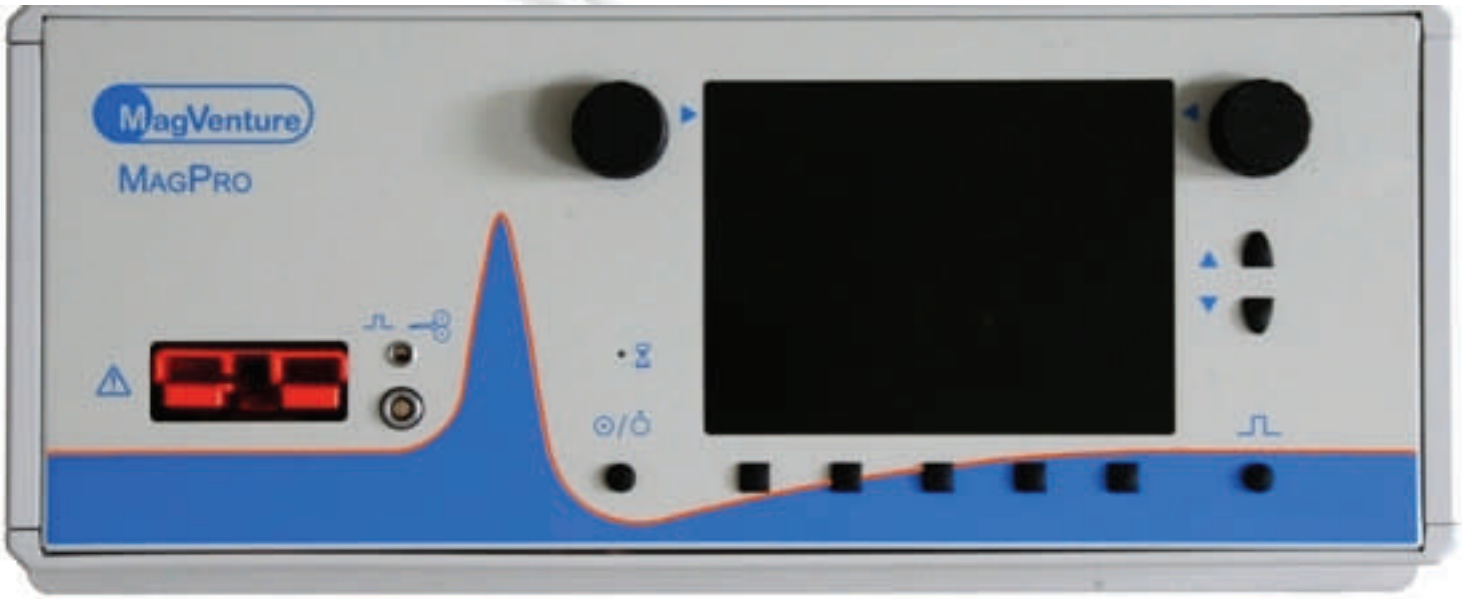
MagPro X100

VERSATILITY IN MAGNETIC STIMULATION



Product Information Sheet: MagPro X100, Technical Data
October 2007

High-performance, non-invasive magnetic stimulators for use in both the clinic and in medical research

"The MagPro X100 is an advanced, high performance magnetic stimulator designed primarily for research purposes"

Electromagnetic Data

Stimulation Waveforms:

Waveform	Pulse Width
Biphasic	280µs
Monophasic*	70µs

*From onset to peak

Current Direction:
Normal or reverse

Magnetic gradient from Stimulation Coils:
Magnetic Gradient and number of stimuli before overheats depend on the specific coil used.

Performance Data

Output versus Repetition Rate, depending on Waveform:

Waveform	Repetition Rate						
	5pps	10pps	20pps	30pps	50pps	75pps	100pps
Biphasic	100%	100%	80%	65%	50%	35%	30%
Biphasic Burst(N=3)	100%	100%	70%	50%	35%	25%	20%
MonoPhasic	100%	70%	50%	40%	30%	25%	20%

(**pps** = **p**ulses **p**er. **Second**) N = Number of pulses (N=2,3,4,5)

Mechanical Data

Dimensions

MagPro: (H x W x D:) 210 x 530 x 400 mm

Cart: (H x W x D:) 800 x 610 x 550 mm

System height with cart: 102 cm

Weight: MagPro: 35 kg, Cart: 16 kg

Trigger Signals

Trigger Input:
Pulse width > 5µs
TTL + CMOS levels accepted
Input Impedance > 10 kOhm
Polarity: User-defined

Trigger Output:
Pulse width: 30µs, TTL-levels
Output Impedance < 200 Ohm
Polarity: User-defined

Power Supply

Mains Voltage: ~230V 50/60Hz

Mains Impedance: < 1 Ω

Maximum Power Consumption: 2300VA

Standby Power Consumption: <150 VA

Operation from 100/115/127V through Transformer.

Environmental Data

Operating Temperature: 10 – 30°C

Storage Temperature: 5 – 50°C

Operating Humidity: 30 – 60 % RH.

Storage Humidity: 20 – 80 % RH