

DS7AP

Digitimer

NEUROSPEC
Research Neurosciences

DS7AP Muscle Stimulator

Electrical Stimulation for Correction of Anorectal Malformation

Constant Current Stimulation



Specially Designed Disposable Probes



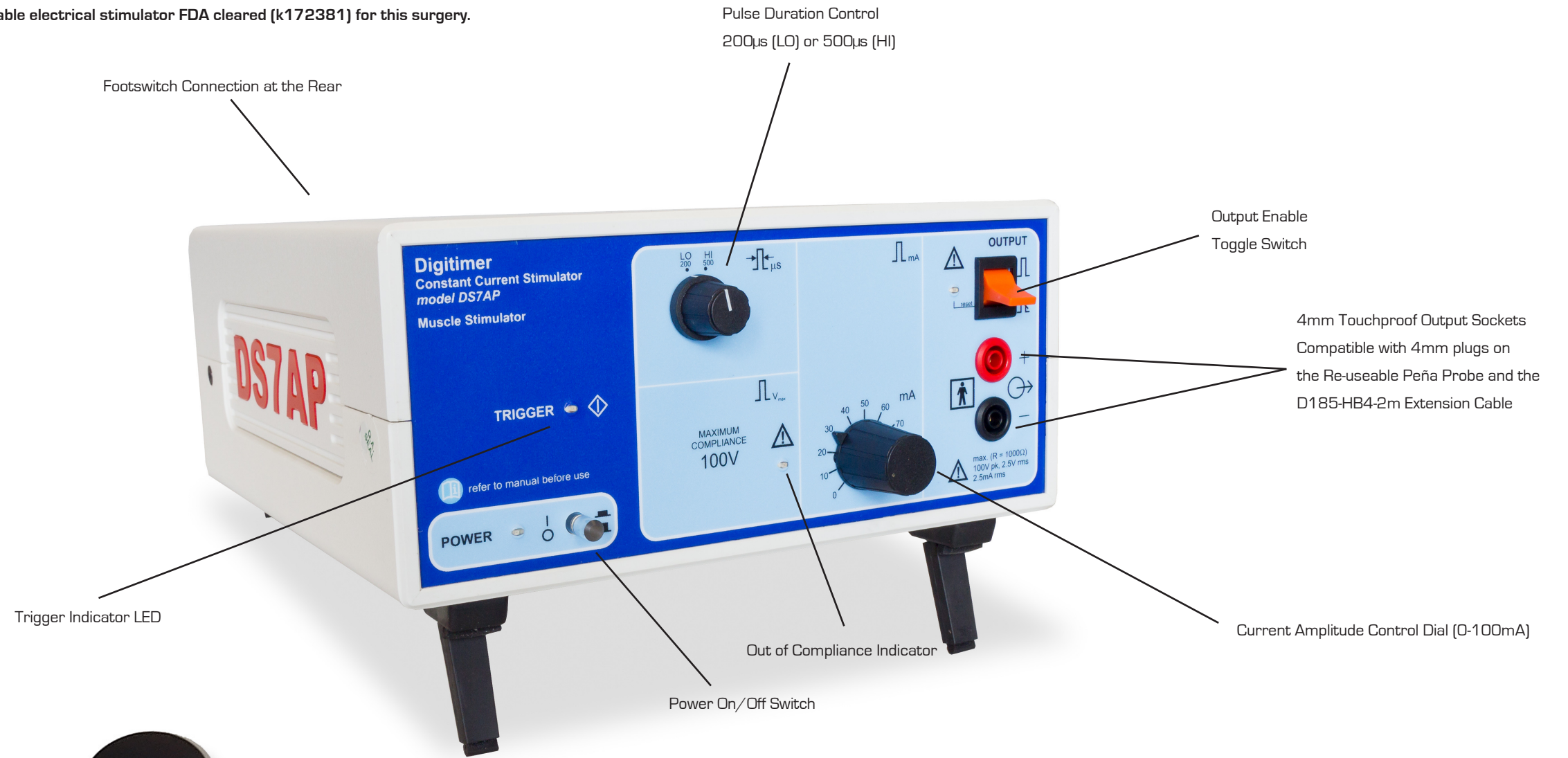
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The Digitimer DS7AP Muscle Stimulator is an FDA cleared and MDD CE certified isolated constant current stimulator for paediatric surgical use. It has been specially designed to meet the requirements of paediatric surgeons who need a reliable and easy to use muscle locating stimulator when carrying out the Peña, "Pull-through" or posterior sagittal anorectoplasty (PSARP) anorectal reconstruction technique. The DS7AP is used by a surgeon to identify underlying musculature and aid reconstruction of the anus in neonates born with anorectal malformations. **Used in over 30 countries, the DS7AP is the ONLY commercially available electrical stimulator FDA cleared (k172381) for this surgery.**

Features Include:-

- Very Simple Controls.
- Fixed Stimulus Frequency (50Hz).
- 0-100mA Constant Current Output.
- 100V Compliance Voltage.
- 200µs or 500µs Pulse Durations.
- Compatible with disposable bipolar probes.
- Optional footswitch for improved control.
- FDA cleared & CE certified Medical Device.



Trigger Indicator LED

Pulse Duration Control
200µs (LO) or 500µs (HI)

Output Enable
Toggle Switch

4mm Touchproof Output Sockets
Compatible with 4mm plugs on
the Re-useable Peña Probe and the
D185-HB4-2m Extension Cable

Current Amplitude Control Dial (0-100mA)

Out of Compliance Indicator

Power On/Off Switch

Footswitch (supplied)

This footswitch is a medical grade foot switch that is sealed to IP68 so as to meet all the requirements of EN 60601 for use within operating theatres.

Part code: D185-FS1



Electrode Connection Cable (supplied)

Supplied with each DS7AP, the distal end of the D185-HB4-2m 2m long extension cable features a pair of 1.5mm DIN 42802 sockets, compatible with the plugs fitted to the disposable Precision Bipolar Probe.

Part code: D185-HB4-2M



Disposable Precision Bipolar Stimulation Probe

Available in packs of 10 probes, the Digitimer Precision Bipolar Probe is a dedicated single-use probe for our DS7AP stimulator and PSARP surgery. The probes are fitted with 1.5mm DIN 42 802 connectors and MUST be used in conjunction with our 2m long D185-HB4-2m Electrode Connection Cable which is supplied with the stimulator.

Part code: E.DS7AP-DP



Specifications

Power:	Push rod On/Off switch.
Pulse Duration:	LO (200µs) or HI (500µs), two position rotary switch.
Current:	0-100mA, continuously adjustable dial.
Compliance Voltage:	100V.
Output Frequency:	50Hz.
Output Enable:	Toggle Switch (On is Up, Off/Reset is down)*.
Output Connections:	4mm shrouded, touch-proof sockets (red and black) on 3/4" centres.
Footswitch Connection	Rear Panel 3.5mm mono jack socket (for optional D185-FS1 Contact Closure Footswitch).

Front Panel Indicators

Power:	Green LED, illuminated for power ON.
Trigger:	Amber LED, illuminated to indicate stimulus trigger is active.
Compliance:	Amber LED, illuminated if the compliance limit is reached i.e the current requested cannot be delivered (e.g. due to high resistance between probe tips).
Reset/Fault:	Amber LED illuminated and latched for sensed over current and at power on.

Other

Power:	100-120V or 200-240V (externally selected), 47-63Hz, 12VA.
Classification:	Class 1 with Type BF applied part.
Safety:	EN 60601:2006.
Regulatory:	Europe: CE Certified to the European Medical Device Directive. USA: FDA 510(k) [k172381].

* When used with a D185-FS1 Footswitch, the toggle switch "arms" the stimulator and the footswitch activates the stimulus when pressed.

Installation

Our products do NOT require installation by Digitimer personnel as they are supplied with comprehensive instructions and are easy to set up & operate. However, in the event that installation by Digitimer or a local representative is requested, this would be a chargeable service, the cost of which is determined by the geographical location of the installation. For an estimate of installation costs, please contact us.

CAUTION

Federal law restricts this device to sales by, or on order, of a practitioner licensed by the law of the State in which he/she practices to use or order use of the device.

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