

StimTrak | Brain Products GmbH > Solutions

StimTrak	Technical specifications
No. of channels	1 (input signal is conditioned and output as analog signal, which is also used to derive a digital trigger signal)
Galvanic isolations	Signal input circuit (incl. Signal In, microphone and Pass-through) Signal output circuit, Trigger circuit Dielectric strength of the isolation barriers: 1,500 VDC
Gain factors	1, 10, 100
Power consumption	900 mW
Power supply	Batteries, 2x size AA Rechargeable 1.2 V NiMH batteries, rechargeable 1.5 V Li-ion batteries, or non-rechargeable 1.5 V alkaline batteries
Battery operating time	> 5 hours
Sensor supply	±5 VDC, ±50 mA, on Signal in, pin 1 and 5
Bandwidth	DC to 10 kHz
Signal coupling	DC
Voltage ranges	Signal input: ±5 V Signal output: ±5 V
Trigger	0 VDC to 5 VDC
Trigger pulse	5 V TTL, level triggered, high active; Duration: 11 ms, retriggerable (These 11 ms are extended if a new pulse is received. The signal level stays high.); Triggering on positive signals only! Min. signal length: 10 µs; Trigger source: amplified input signal after galvanic isolation
Trigger status display	Trigger LED (green) illuminates for 100 ms if the trigger threshold is exceeded. In rapid succession of trigger pulses, the impression of a longer luminescence can occur.
Microphone	Electret microphone capsule, integrated in the housing Sensitivity (at 1 kHz, 0 dB = 1 V/Pa): -41 ±3 dB Bandwidth: 50 Hz to 10 000 Hz
Battery charging	In external charger (supplied)
On/off switch	Mechanical, two-way switch On: Power LED (green) lights up Off: all LEDs off
Low battery LED	Amber, indicates low battery voltage Indication threshold: 1.9 V
Battery discharge protection	Yes
Dimensions (W x D x H)	93 mm x 53 mm x 32 mm
Weight	Approx. 150 g (with batteries), Approx. 85 g (without batteries)
Miscellaneous	
Suitable for use in MR scanner room	No
Medical device	No
CE marking	Brain Products GmbH confirms the electromagnetic compatibility (EMC) of this product

according to the Directive 2014/30/EU of the European Parliament and of the Council of 26 February 2014 on the harmonisation of the laws of the Member States relating to electromagnetic compatibility. Brain Products GmbH confirms the RoHS compliance of this product according to Directive 2011/65/EU of the European Parliament and the Council of 8 June 2011 on the restriction of the use of certain hazardous substances in electrical and electronic equipment (recast published in the Official Journal of the European Union on 1 July 2011) as well as all its amendments up to and including the Commission delegated directive (EU) 2015/863 of 31 March 2015 (published in the Official Journal of the European Union on 4 June 2015).