# TetraGraph

## **Technical Specifications**



## **Modes of Operation**

**TOF Interval** 20 sec - 60 mins

Automatic stimulus setup Automatic detection of maximal current

Train-of-Four (TOF Ratio & TOF Count) 4 pulses of 200 or 300 µs duration at 2 Hz repeated at

user selected frequency of 20 s, 1 min, 5 min, 15, min or

Supramaximal current 20% above maximal current

60 min

Post-tetanic Count (PTC) PTC consists of Tetanic Stimulation, a set of 250 pulses

(1 pulse at 50Hz over 5s) fixed at 50mA, 200 µs;

followed by up to 20 ST pulses at 1 Hz

Pulse of 200 or 300 µs duration at 0.1 Hz Single Twitch (ST)

## Stimulation

0-60 mA @ 5k-ohm Current Pulse Width 200 μs or 300 μs

Pulse Type Monophasic square wave Voltage 300V, 2800 watt-hours

## **Sensor Type**

Integrated strip sensor TetraSense disposable stimulator recorder Sensor stimulus placement Ulnar nerve or Posterior Tibial nerve

Sensor recording placement Adductor Pollicis muscle (AP), Abductor Digiti Minimi

muscle (ADM), First Dorsal Interosseus muscle (FDI)

Duration of use Single use, 24 hours on the same patient

## Recording

Range .1-50 mV Noise <1 uV 50/60 Hz filter Yes

Measurement Peak-to-Peak MAP

## Graphics

Display Color LCD, Brightness control, Touch Screen interface

MAP (Muscle Action Potentials) Display of waveforms

TOF Bar of four pulse amplitudes and %, trend of successive TOFR values

TOFC TOF Count, integer and trend

ST Amplitude of response, mV, series of response

amplitudes as bars

PTC Number of post-tetanic count



## **Power Supply**

Charger EN 60601-1 power supply 5V DC USB connection

Connection to mains electricity during use TetraGraph must only be used with the supplied power

supply adapter and USB cable.

Battery 8 hours continuous operation with new battery in good

condition

Battery specifications Rechargeable Lithium battery, Varta Easy-Pack standard

battery

Cord length 3 m

#### **Dimensions**

Length180 mmWidth100 mmThickness35 mm

Weight 380g +/-40 g (including battery)

## **Additional Features**

Day-Date Three user-selecteable formats
Patient ID Yes, 12 numeric plus hyphen

Audible stimulus On/Off

Data review On-screen review of device data
Data Interface TetraGraph Philips Interface

Data Management TetraConnect cloudbased connectivity portal to upload,

view, share and export data

Communication Interface USB connector

Connected equipment USB 2.0 or higher

Patient Cable Cord length 2,5 m

#### **Environment during storage and movement between hospital location**

Temperature 5°C to 40°C

Relative humidity 20% to 100% non-condensing

Atmospheric pressure 50 kPa to 106 kPa

## **Environment during use**

Temperature 15°C to 35°C

Relative humidity 20% to 80% non-condencing

Atmospheric pressure 70k Pa to 106 kPa

## **Standards Applied**

BS EN ISO 60601-1:2006+A12:2014

BS EN ISO 60601-1-2:2015 Excluding clause 3.6 limited to 8kV air discharge and 6kV

contact, recommended for use in areas with anti-static

flooring such as operating rooms

BS EN ISO 60601-2-40:2016 Excluding clause 201.12.4.102. The device does not have

a yellow indicator to inform the user the capacitor is primed for stimulation as the device is always primed



