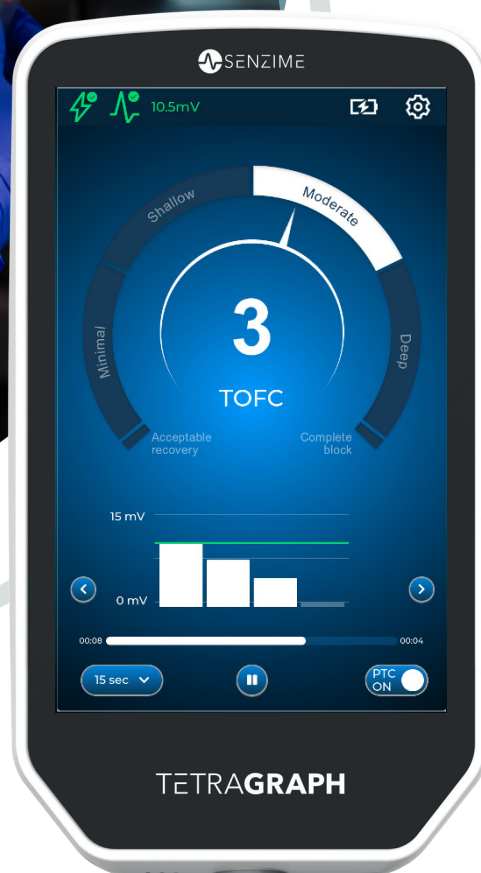


TETRAGRAPH

Next-Generation

Quick Reference Guide



TETRAGRAPH

Buttonology

Optimal stimuli settings found (or supra maximal stimuli found) indicated in green

Good sensor placement is indicated by signal strength in green.

Battery indicator

Notification Bar

TetraGraph® Level-of-Block Gauge™

Change time interval between every reading

Countdown timer to next reading

Pause button

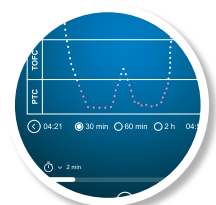
Adaptive PTC™ on/off

Settings

Power Button

The faded arrows indicate which way the needle is trending

Change view from bar graph to EMG curve to trend graph



TETRAGRAPH

Quick Guide



1

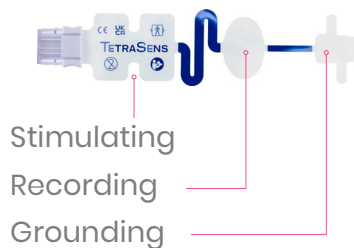
Turn on Monitor

If the monitor is not connected to power, ensure adequate battery charge.

2

Place Sensor

Prepare skin, place stimulating electrodes on ulnar nerve, attach recording electrode to Abductor Digiti Minimi (ADM) muscle or Adductor Pollicis (AP) muscle, and position grounding electrode away from recording electrode.



ADM



AP



Foot Placement

3

Connect Cable to Sensor

A quick, single click sound confirms a proper connection.



4

Press Auto Play Button

Press auto play button before administering muscle relaxants for optimal sensor placement feedback.

The monitor will auto-select optimal stimulus and set a signal strength. Strive for signal strength >5 mV indicated in green.



5

Enter TetraGraph® Adaptive PTC™

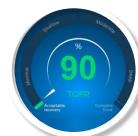
TetraGraph® Adaptive PTC™ Enters Deep Block Mode automatically when TOFC is 0.



6

Ensure Acceptable Recovery

The patient has reached acceptable recovery when TOFR is $\geq 90\%$.



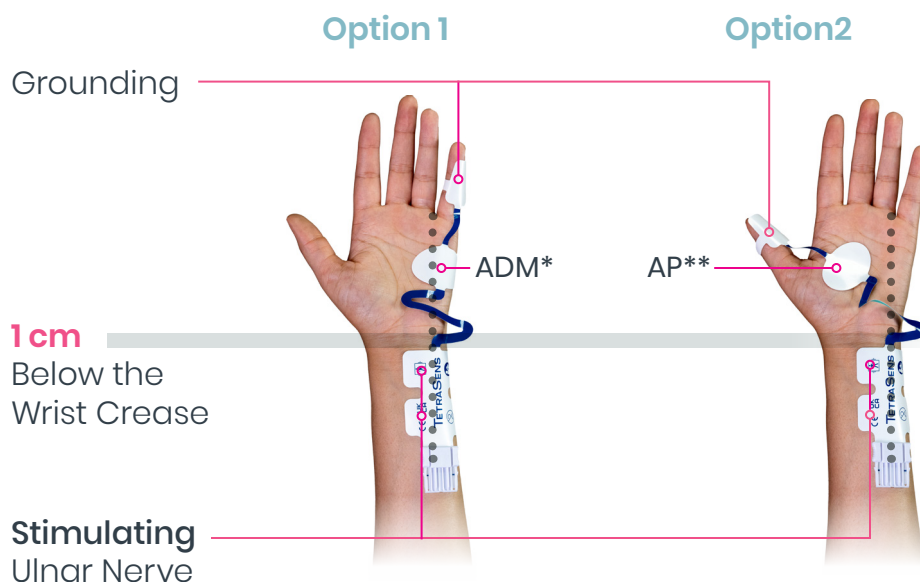
Important:

Please read the complete TetraGraph User Manual, including warnings and cautions section, before operating the device to ensure safe and correct use.

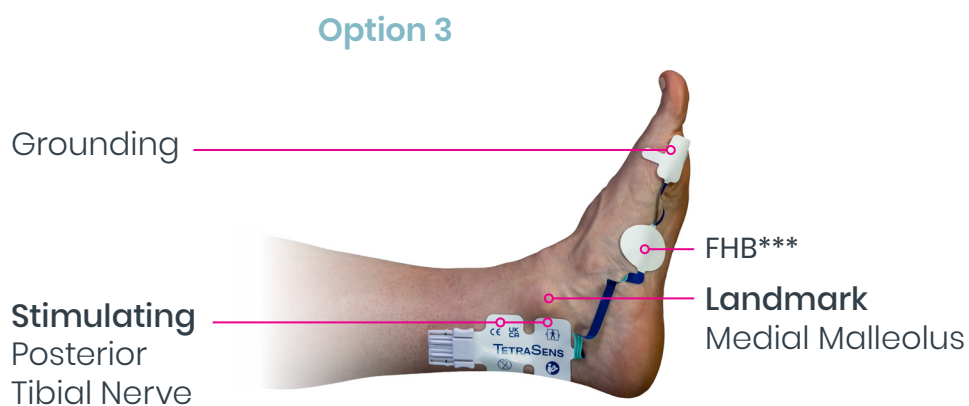
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Sensor Placement

Ulnar Nerve



Posterior Tibial Nerve



*Abductor Digiti Minimi muscle
**Adductor Pollicis muscle
***Flexor Hallucis Brevis muscle

TETRAGRAPH

Level-of-Block Gauge™



**Less
Block**

**More
Block**

Acceptable recovery TOFR	≥ 90%
Minimal TOFR	40-89%
Shallow TOFR	< 40%
Moderate TOFC	0-3
Deep PTC	1-20
Complete Block PTC	0

I. G. S. Murphy et al.,
Anesthesiology. 136, 345-361 (2022).

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PTC: The Tip of the Iceberg

Receptor
Occupancy

Depth
of Block

90-95%

>95%

Moderate

TOFC 1

TOF COUNT 0

PTC 20

PTC 10

PTC 6

PTC 2

PTC 1

PTC 0

Deep

99%

Complete

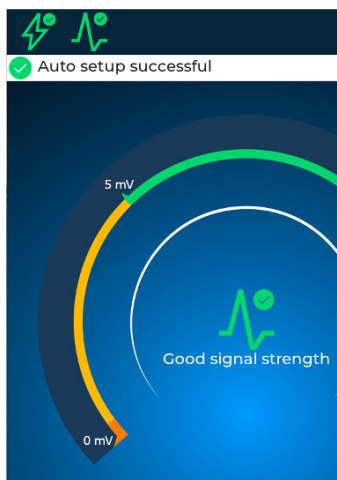
TETRAGRAPH


Sensor Placement Feedback

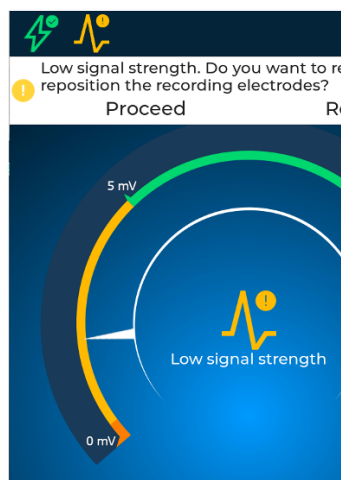
Strive for **Five**

Signal strength measures the strength (amplitude) of the first twitch. It is recommended to measure signal strength before administering muscle relaxants. If you start the device after NMBAs have been given, TetraGraph® Adaptive Intelligence™ will display an estimated signal strength.

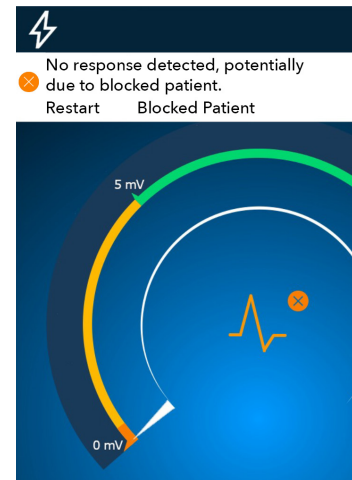
After pressing Auto Play button, TetraGraph will measure signal strength.




 Good Signal Strength

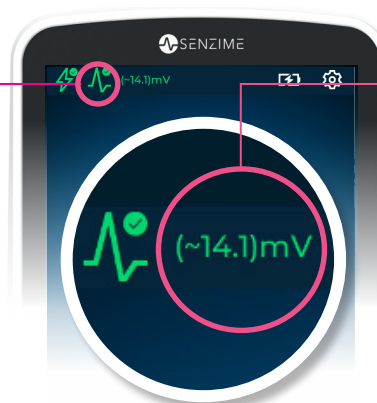


 Low Signal Strength



 No signal strength detected

Throughout the case, signal strength is displayed at the top left corner of the screen. Press on the icon button for more information.



If you start the device after NMBAs have been given, **estimated signal strength** will be displayed in parenthesis

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Sensor Placement Matters

Good Signal Strength $>5\text{mV}$



Good placement on ulnar nerve.

Higher signal strength=higher intraoperative sensitivity

Low Signal Strength $<5\text{mV}$



Sensor placed in center of wrist, not over ulnar nerve



Sensor placed too far from wrist crease



Sensor placed on radial side, not over ulnar nerve

Paralytic Dosing & Reversal Management

Intubation & Intraoperative Management

Rocuronium Dosing Guidelines – Elective Intubation (Non-RSI)

Intubation Dose: Rocuronium Bromide 0.6 mg/kg (IBW)

- Dose adjusted for sex: Dose reduction females (15%)
- Dose adjusted for age: For each year > 55 (1%/year)

Incremental Dosing

- 20% of ED₉₅ Dose (ED₉₅ Dose Rocuronium = 0.3 mg/kg)

Redosing Indications via Quantitative Monitoring

Redose @ TOFC of 3

- If profound block is necessary, redose @ PTC at count of 1

Avoid total twitch loss (PTC of 0)

- Avoid redosing in last 30 minutes of the procedure

Extubation Timing

- TOFR ≥ 90% via Quantitative Monitor

Reversal Management

Quantitative TOF Value	Reversal Agent and Dose†
TOFR ≥ 90%	Reversal not required
TOFR > 40%	Neostigmine 40 mcg/kg (Max 5mg)*
TOFR < 40% TOFC 3, 2, or 1	Sugammadex 2 mg/kg**
TOFC 0 PTC ≥ 1 PTC 0 (non-emergent)	Sugammadex 4 mg/kg**
PTC 0 (emergent) Can't intubate/ventilate	Sugammadex 16 mg/kg**

†After Rocuronium or Vecuronium

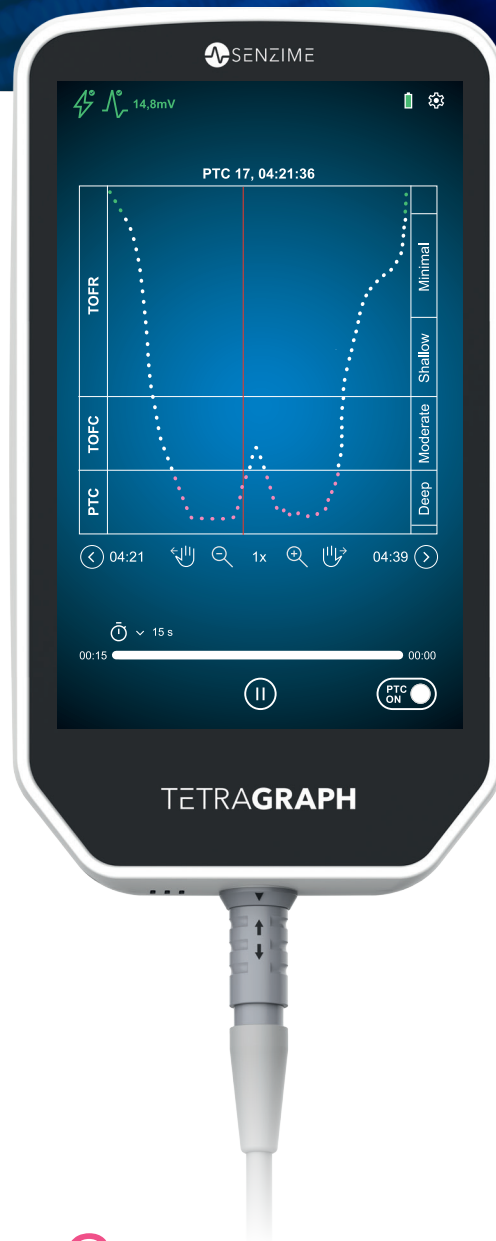
This guide is based on published literature. Clinicians should use their own judgment.

*Neostigmine dosed on Ideal Body Weight; Neostigmine requires time to work; time reversal with expected extubation time. If ≥ 90% TOFR is not achieved in **15 minutes**, dose with 2 mg/kg Sugammadex and confirm 90%

**Sugammadex dosed on Actual Body Weight.

1. S. R. Thilen et al., *Anesthesiology*. 138, 13–41 (2023).
2. Merck & Co., Inc., Bridion® dosing considerations.

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Learn more?
[Senzime.com/support](https://senzime.com/support)