

MyOnyx Pressure Sensor and probe

Product overview

Thought Technology is happy to introduce a new skill to the MyOnyx Biofeedback/E-STIM device: pelvic floor pressure sensing. Now you can measure force generated in absolute values.

For pelvic floor therapists, Biofeedback is an essential tool, giving them insight into the state and activity of deep, hidden pelvic floor musculature. Various types of biofeedback may be utilized, differing by the biological signal investigated. Each signal provides us a unique perspective and valuable information. Combined, they allow a wider, more complete picture. We can use the data to understand underlying conditions and devise a clinical approach. Moreover, thanks to the live characteristic of the methodology, we can learn and teach how to better control these properties and learn self-regulation.

EMG vs Pressure:

The relation between the two resembles cause and effect, where EMG measures the former and pressure the latter. With EMG, we look at the effort exerted by the neuromuscular system, as reflected by the electrical activity in the muscles. This gives us a clue about patients' ability to initiate action, sustain and cease it. In doing so, we see the stability, effectivity and health of the system, as well as the state and tone of the muscles at rest. EMG is a kinetic measure in nature, we learn from it about the internal processes leading to action. EMG is best utilized when treating conditions that involve neurological stability, control and self-regulation, hypo or hyper-tonicity, continence and chronic pain. Due to the complexity of these systems, the signal is not a good candidate for normalization and standardization, it varies greatly between persons and sessions and is therefore not commonly used as a diagnosis tool, progress indicator or an absolute measurement.

Pressure is a Kinematic value, it tells us the outcome of the muscle activation- the force generated by the user's action in pressure units, easily convertible to newtons or Kg-f. This gives us a more direct measure of real force, that can be standardized, better suited as a clinical indicator or arix, allowing objective assessments, comparison to norms, and follow up on patients' progress. Pressure is an excellent tool for issues that are more mechanical in nature, weakness, and voidance problems.

As a less precise, simpler measurement, pressure is less suitable for fine control issues, it also does not give us information on the state of the muscle at rest, or the efficiency of generating action.

Which is better for you?

Now, you don't have to choose! Take advantage of the MyOnyx ability to read, display and record either signal or both at once.

No adjustment necessary! The MyOnyx app automatically detects the type of sensor connected and displays the information on the same beautiful, informative, easy to read screens you already know and love. The 2 signals can even be displayed next to each other simultaneously.

The **pressure Sensor (T9003)** is an additional hardware sold separately from the MyOnyx. It connects to the existing biofeedback ports on the MyOnyx (ports A & B) on one end, and to a dedicated **Pressure Probe (T9005)** on the other end.

The **Pressure Sensor** is a hardware accessory to the MyOnyx, one time purchase for continued usage. The **Pressure Probe** is a disposable single patient accessory.

The **pressure sensor** includes an electric pump and a transducer able to read pressure data from the connected dedicated **pressure probe** and translate it into digital information, which in turn is transferred to the MyOnyx device.



The MyOnyx is compatible with the pressure sensor and you will not need to do any adjustments on it or on the app, to be able to use it. Simply purchase and attach.

On the MyOnyx app, the external sensor will be identified automatically and the scales will show pressure units (mmHg) instead of EMG units (microVolt).

The rest stays the same, and you may run sessions of biofeedback, across all screens, in exactly the same manner as an EMG session, including relevant statistics and reports. You may also use 2 pressure sensors at once, or one pressure sensor and one EMG channel, all seamlessly detected upon connection.

Futher infomation and orders

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