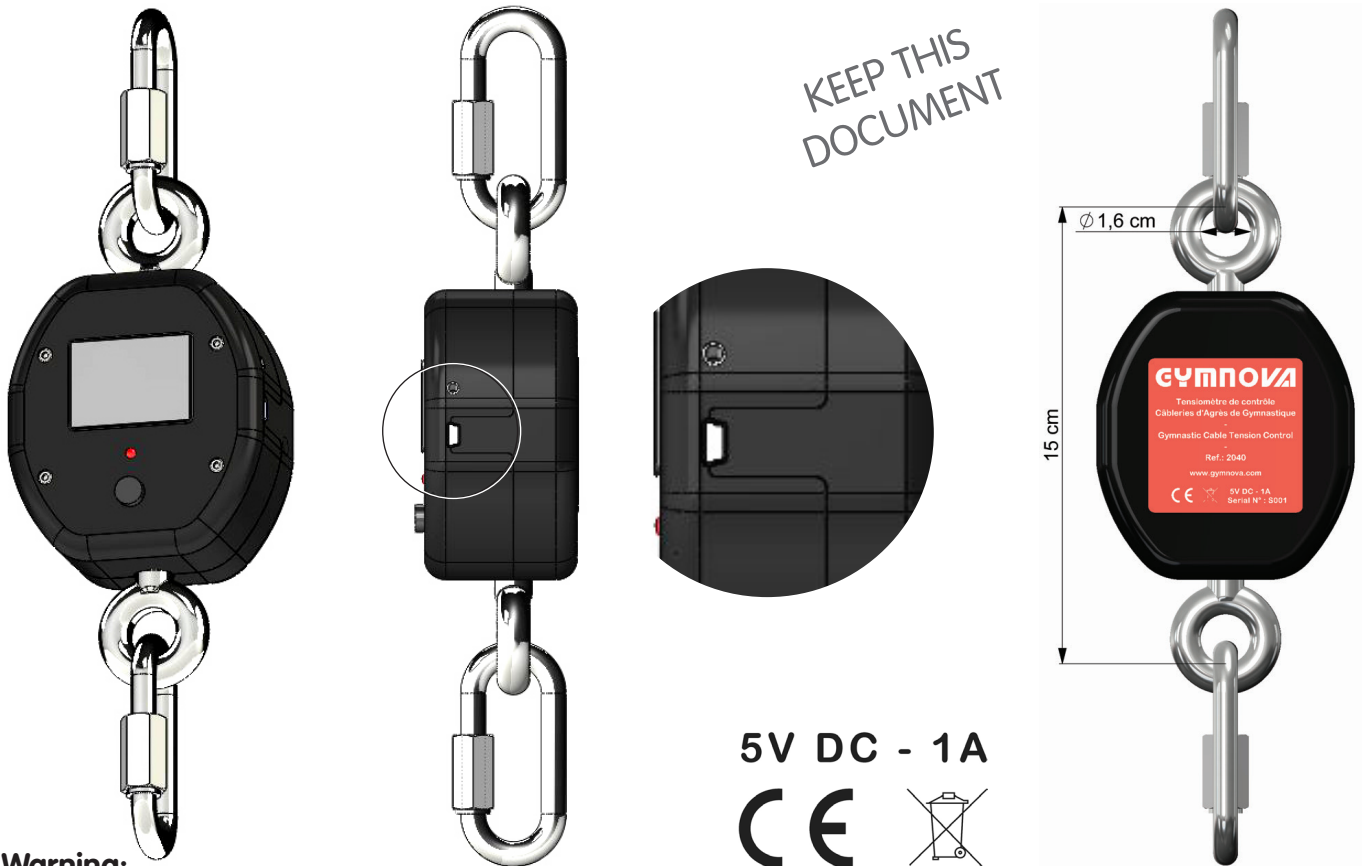


**GYMNASTIC CABLE TENSION CONTROL**

**2040**

KEEP THIS DOCUMENT



**Warning:**

This equipment should be installed by a qualified individual, able to assemble the apparatus and its guying. Using this equipment for purposes other than those originally intended (cable tension measurement) is prohibited. When assembly as been done correctly, the device can be used by fitters, gymnasts, trainers and judges.

**IMPORTANT: The device should be assembled on cables with maximum used tension of 10000N. If capacity is exceeded, the tensiometer displays « Overload » instead of the cable voltage measurement.**

**⚠ ATTENTION: The device should be only charged with USB charger (4) (supplied with its cable (5)), with 5V DC output maximum voltage and deliver a current between 1 and 2A.** All connected external circuits to device need to be imperatively SELV type (Safety Extra Low Voltage) and Limited Power Sources in accordance with relating to information processing equipment standards: «IEC60950-1:2005+/A1:2010+/A2:2013-§2.2 et 2.5» and «EN60950 1:2006+/A11:2009+/A1:2010+/A12:2011+/A2:2013-§2.2 et 2.5».

**Compliance:**

This equipment complies with the requirements of the European standard EN 61326-1 of 2013 as regards Electromagnetic compatibility (EMC) and IEC61010-1:2010+A1:2016+AC1:2019-§5 standard Safety requirements of equipment for measuring. The GCTC (Gymnastic Cable Tension Control) is a mechanical tension measurement system for a gymnastics apparatus cable, which has been designed for use in regular environment, and as such is Class B for use in domestic environment.

**Recommendations:**

- Keep these instructions for subsequent reference (inspection, maintenance, etc.).
- Periodically carry out predictive maintenance.
- Depending on how often it is used, have the equipment serviced yearly or every few years.

**Cases of use:**

The tension control device is provided to be assembled on standard cable set for GYMNOVA apparatus following:

- Training and competition Asymmetric Bars **Refs: 3230 - 3240 - 3270D** (Cable set: 3203B).
- Training and competition High Bars **Refs: 3020F - 3030 - 3120H** (Cable set: 3011B).
- Competition ring frames **Refs: 3700D - 3770F** (Cable set: 3700/40).

**Pack list:**

1 Package (ref.: 2040) : Tension control device - Weight: 1.7 Kg - Dim.: 0,27 x 0,25x 0,1m - Vol. : 0,0068 m<sup>3</sup>

Constantly aiming to improve our products, we reserve the right to make changes to the equipment and dimensions without further discussion.

## I. GCTC « Zero setting »:

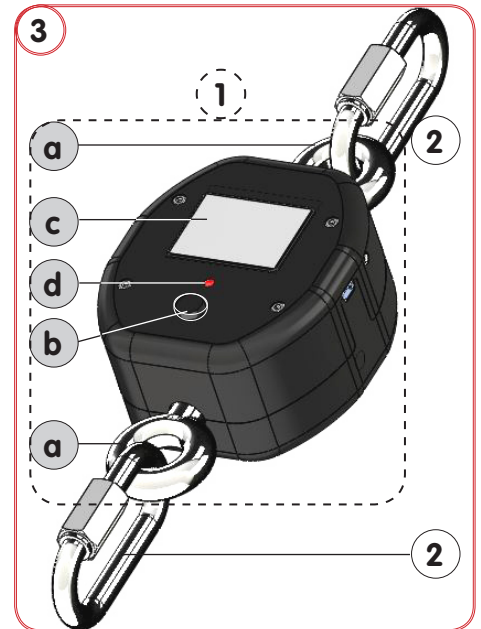
Before mounting the device (1) on a cable, be sure to calibrate the zero of the device.

To make the « Zero setting »:

- Lay the device (1) flat without exerting any tension on the hooks (rings (a) and quick links (2)),
- Press the « Start » button (b) during 5s until the following message is displayed on the screen (c):  
**« release and quickly press on the button for calibration »**
- Release the button (b) then immediately press it quickly again to enter the « Zero setting » mode. The following message is displayed on the screen (c):  
**« calibration mode in progress check that the load is at zero »**

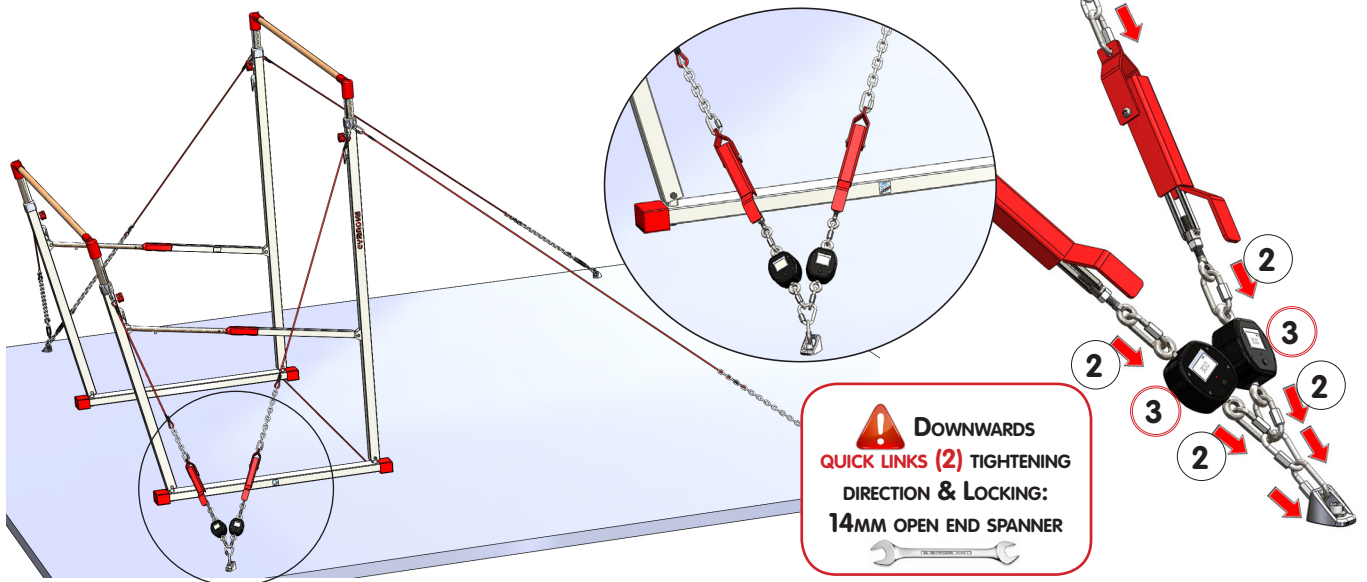
The operation takes less than 5s.

- Then you can connect your device (1) with the 2 quick links (2) to a cable to measure the tension.

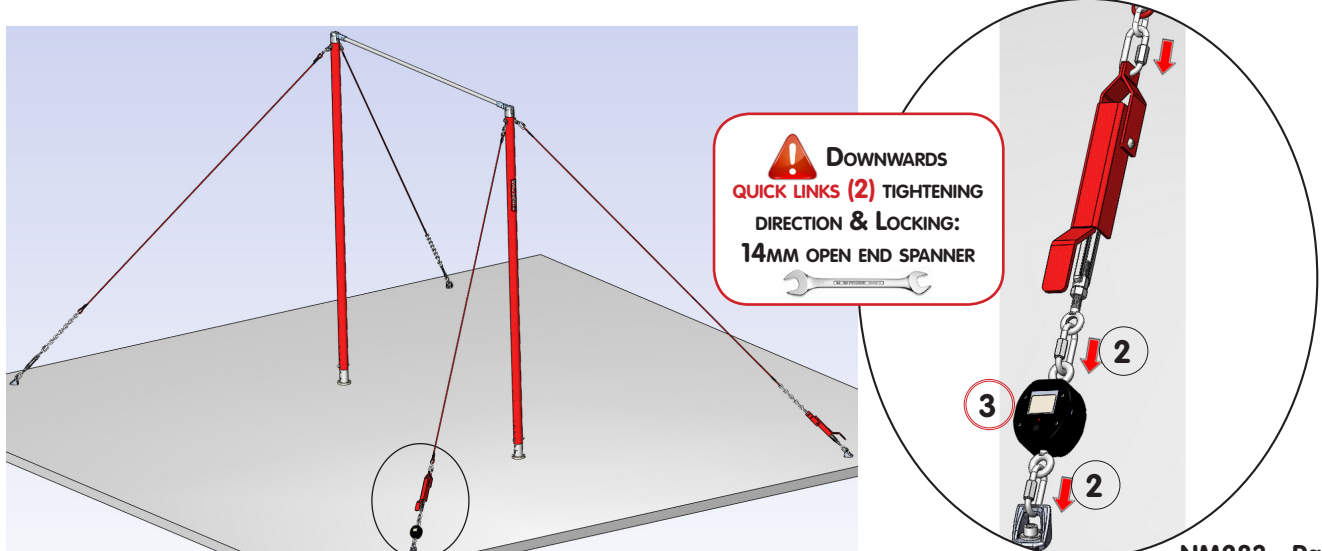


## II. Assembly of the tension control device on apparatus cable set:

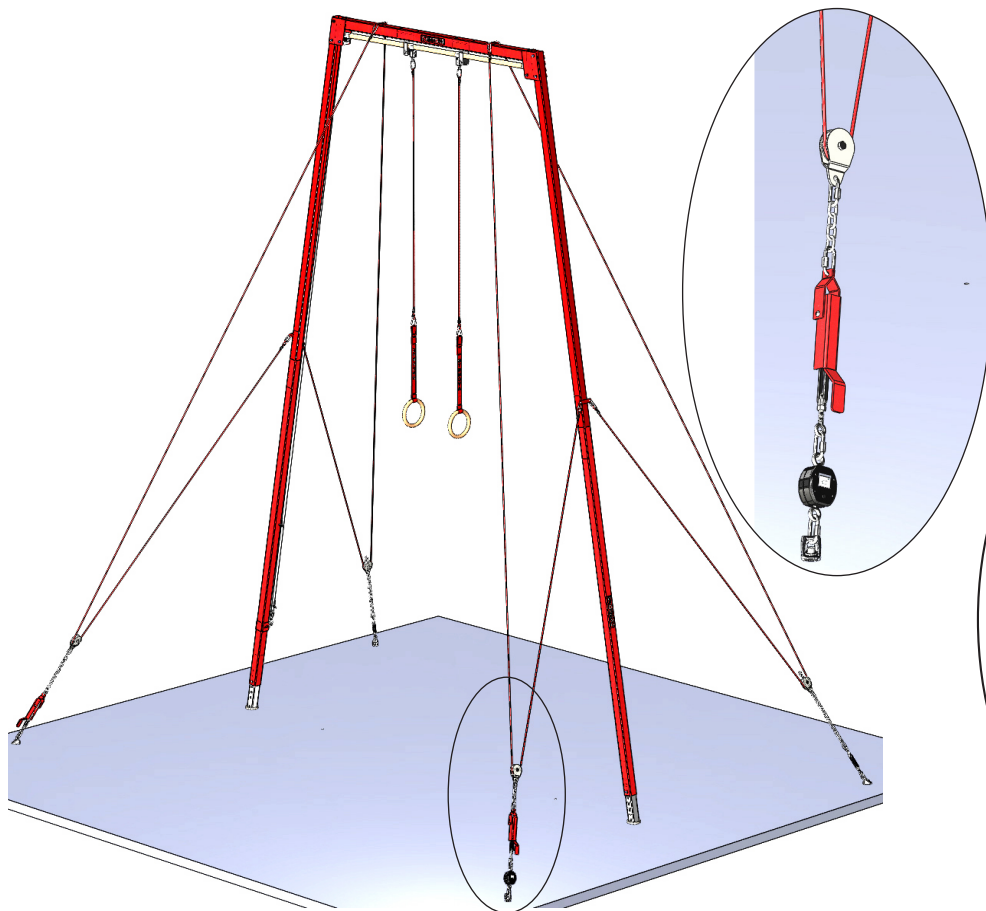
**1. Asymmetric Bars:** 2 devices (1) are required to measure cables tension. Assemble each complete device (3) between the quick fastener and the anchorage point as shown on figures below. To complete assembly, refer to Standard Cable Set (Ref.: 3203B) assembly instructions **NM177D**.



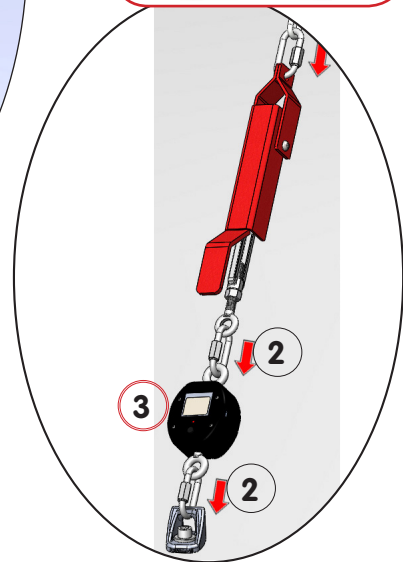
**2. High Bars:** 1 device (1) is required to measure cable tension. Assemble complete device (3) between the quick fastener and the anchorage point as shown on figures below. To complete assembly, refer to Standard Cable Set (Ref.: 3011B) assembly instructions **NM180C**.



**3. Ring frames:** 1 device (1) is required to measure cable tension. Assemble complete device (3) between the quick fastener and the anchorage point as shown on figures below. To complete assembly, refer to Cable Set (Ref.: 3700/40) assembly instructions **NM181D**.



**DOWNWARDS**  
**QUICK LINKS (2) TIGHTENING**  
**DIRECTION & LOCKING:**  
**14MM OPEN END SPANNER**



### III. Use of the tension control device on apparatus cable set:

#### 1. General terms of transport, storage and use:

The device work properly under the following conditions:

- Indoor in a not wet area,
- At a maximale altitude of 2000m,
- For temperatures between 5 and 40°C,
- With 80% maximal wet relative humidity for temperatures  $\leq 31^\circ\text{C}$ , then decreasing to about 50% at 40°C.
- Its pollution degree is P2 provided, which is a nonconducting dry pollution degree (like chalk), which a temporary conduction can be expected with condensation (like sweat).

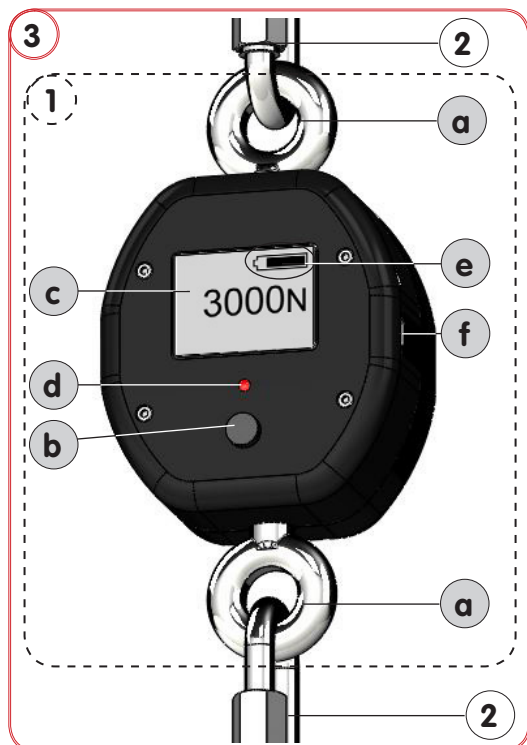
#### 2. Symbols mean:

- «CE» marking: health, safety, efficiency and environmental protection requirements European Conformity applicable standards and guidelines for this device (see § **Compliance** page 1).
- «Crossed out waste bin» symbol: means product may not be disposed of with normal household waste at the end of their service life. It must be brought to a collection point for the recycling of electrical and electronic equipment/devices. Be sure the product is properly disposed, you promote the preventing negative effects for environment and human health, otherwise would be an improper waste treatment for this product. To obtain more details on recycling of this product, please contact your municipal office, your domestic waste disposal service or your retailer.

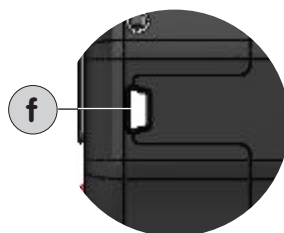


### 3. Tension control device operation:

- To turn on the device (1), press the « Start » button (b). The cable tension is displayed for 5 seconds, then the device turn off.
- The device gives the tension in a range from 0 to 10000 (N) with increments of 100 (N).
- When cable set is in tension (quick tensioners red handles closed), without any user on the apparatus, if the cable tension displayed is less than 1000 or greater than 5000, the LED (d) flashes for 10 seconds. **The apparatus should not be used: for your safety, the cable tension should be in the range of 1000 to 5000.**
- **IMPORTANT:** The device should be assembled on cables with maximum used tension of 10000N. If capacity is exceeded, the tensiometer displays « Overload » instead of the cable voltage measurement.




USB connector - Mini B Type



5V DC - 1A



### 4. Supply and charging the tension control device:

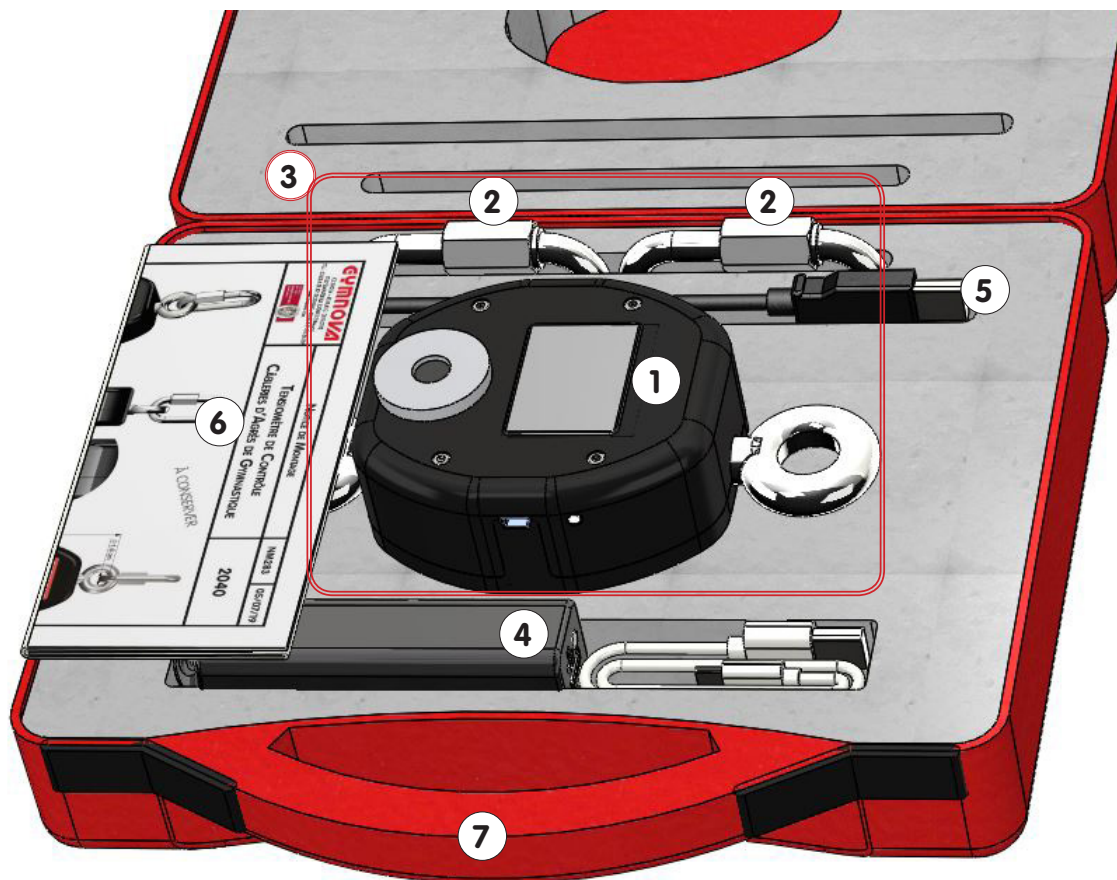
- **⚠ ATTENTION:** The device (1) should be only charged with USB charger (4) (supplied with its cable (5)), with 5V DC output maximum voltage and deliver a current between 1 and 2A.
- When the device (1) is on, the battery load level pictogram «» (e) displays on the right top of the screen (c). Check it regularly before each use. The black area in this pictogram defines the remaining charge level of the battery, composed of 20 levels (1 black level = 5% of the battery capacity).
- If the battery reaches an insufficient charge level for use, the bottom line of the screen indicates «Low battery». The device (1) must then be recharged before any new use, via the USB port (f) located on the side of the device.
- Nota: When the device (1) is powered through its USB connector (f), the display remains active permanently.
- When the device is charging, the display (c) indicates « Charging bat. ».
- When the battery reaches its maximum charge, the display (c) indicates « Bat. charged ».
- As an indication, as part of a regular use of the device (1), it must be recharged approximatively every 6 months (depending of using).

### IV. Maintenance :

- Regular cleaning of the device will make it easier to spot any problems (distortion, play, breakage or corrosion).
- Before each use, make a through check on good condition and correct operation of safety elements: the lack of wear on the rings (a) and quick links (2), and their locking.
- This device (1) have to be cleaned only with a dry cloth, excluding all cleanup removers which could damage it.
- Check the external appearance of the equipment (1) once a month, which must not show any visible defects (screen (c), indicator light (d), plastic housing without cracks or other signs of damage).
- Check the proper operation of the alarm once a month, lowering the voltage of the cable on which it is mounted below the 1000N threshold. The display (c) must indicate a clearly visible voltage value and the light alert must be activated: LED (d) flashes for 10 seconds.
- The tension control device (1) has to be dismantled from de cable set as less yearly, to remake the « Zero setting » (see § I.).
- If the device (1) is not in use for a period of 3 months or more, charge the device before a new use until the display (c) indicates that the load is complete (cf. § III. 4.).

#### Important :

- If a problem or a failure is found or suspected, do not use the equipment until it has been checked by a technician.
- Contact Gymnova with details on the top of first page, or in the «contact» section of the Gymnova website e-shop (<https://shop.gymnova.com/en/nous-contacter>).



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7	1	Carrying case	-	-
6	1	Assembly and use instructions	-	-
5	7	Mini USB power cable - 1m	2040/01	-
4	1	USB charger (5V DC - 1A).+ Cable	2040/02	-
3	1	Complete control device (with fasteners)	2040/10	-
2	2	N°8 quick link	QMRA0008Z	Included in 3
1	1	Tension control device only	-	Included in 3
REP	NBR	DESIGNATION	REFERENCE	OBSERVATION

## GYMNASTIC CABLE TENSION CONTROL

To order spare parts, please provide the description, reference and delivery date of the entire apparatus.

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