9. MAINTENANCE

Product life: 5 years.

DISINFECTION

The foam padding (14) must be disinfected after each patient using a cloth soaked in disinfectant. Dry thoroughly. The rest of the device can be disinfected in the same manner as necessary.

Do not disinfect using flammable products.

REPLACING THE BATTERY:

- To install or replace the battery (figure 8)
- Turn off the unit by pressing the black button (if it wasn't already turned off). • Unscrew the 4 screws (15) of the battery housing using a Philips screwdriver.
- Remove the cover (7).
- Remove the existing battery from the battery holder (17) and disconnect it, taking care
- not to pull on the connector wires (16).
- Connect a new 9V alkaline battery type 6LF22 to connector (16).
- Insert the battery into the holder (17).
- Close the cover (7) and retighten the screws (15).
- Only the type of battery specified in this leaflet may be used.
- The device and batteries should be discarded in separate waste collection facilities and not together with household waste. Batteries should be discarded at the designated disposal facility, whereas the device must be sent to Francemed, which will handle its disposal in the appropriate manner.

Troubleshooting

- The device does not turn on If, after pressing the black button, nothing is displayed, check the battery connection and try again. If nothing happens, change the battery. If still nothing happens, remove the battery and send the device to Francemed in its box.
- The device does not turn off after pressing the black button
- Do not operate the device. Remove the battery and send the device to Francemed in its box. • The device displays the same value and no longer reacts to pressure
- Do not operate the device. Remove the battery and send the device to Francemed in its box.
- For any other malfunction or in the event of maladjustment, severe shock or visible fault
- Do not operate the device. Remove the battery and send the device to Francemed in its box.
- Do not attempt to open the sensor case (except the battery housing to replace the battery). • Do not modify the device. Our company shall not be responsible for any repairs of components performed by third parties.

CALIBRATION

- Once per year, before the date of next calibration indicated on the label, remove the battery and send the device to Francemed in its box.
- Do not use the device if the date of the next calibration has passed. Send the device to Francemed as soon as possible.



"In response to regulation requirements, FRANCEMED is financially supporting the Récylum Pro WEEE recycling process, which collects used electrical devices and equipment, such as lighting equipment, control and monitoring equipment and medical devices free of charge (find additional nformation on www.recylum.com).

EXPLANATION OF SYMBOLS

Manufacturer	Please refer to the manual/instruction leaflet.	REF Product catalogue number
Manufacturing date	LOT Product lot number	MD Medical device

For additional information, please contact us or your dealer or consult the videos and documentation available at our website www.medicalex.info

Francemed can provide the instructions for use in paper form, at no additional cost, at the latest within 7 calendar days of receiving a request.



Figure8 : Chaping the battery

FRANCEMED- 34, avenue du Docteur Durand 94110 ARCUEIL (France) SRN:FR-MF-000008936 Tel.: (33-1) 46 11 16 20 Email: contact@medicalex.info Website: www.medicalex.info **INSTRUCTIONS FOR USE: PRESSURE SENSOR (Part No. 36.415.91)**

Data concerning device safety are indicated by the following symbol 🗥 **1. DESCRIPTION**

The pressure sensor is CE1639 marked. It consists of two elements: the sensor case (Figure 1) and a compression plate (Figure 2). It is powered by a DC 9V battery (===), type 6LF22.





Figure 2: Main compone

The foam plate (14) is the part of the device that is applied to the patient. This is a B-type surface (represented by the symbol X). The sensor case (2) and the battery housing (7) are also surfaces that may be involuntarily applied to the patient's body. They are also type B surfaces

(1) The sensor indicates the pressure in PSI. It can measure pressure values between 0 and 10 PSI. This is not a high-precision device and the measurement error of approximately 15%. To facilitate the interpretation of measurement results, Francemed decided to use PSI units, which are used in international publications on thoracic compression systems for the treatment of pectus carinatum. The

conversion base is $1 \text{ PSI} \approx 6.9 \text{ kPa}$.

2. ASSEMBLY

The compression plate is attached to the sensor case (Figure 3): (a) by placing the insertion tab (13) into the retaining clip (10). (b) then correctly inserting the pressure needles (9) into the guide holes (12).

into the hook of the compression plate (11). The thoracic compression brace includes a compression plate that is similar to the plate supplied with the pressure sensor. The installation of the sensor case on the brace is thus performed in a similar manner.

Do not assemble components from different sources. Use only parts supplied by our company. Otherwise, we shall assume no responsibility. Figure 3: Mounting the compression plate on the sensor case

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(a)

No.	Description		
1.	Lever clasp		
2.	Sensor case		
3.	"LOBAT" - Low battery indicator		
4.	Measured pressure display (1)		
5.	Blue button (mean pressure calculation)		
6.	Black button (ON/OFF)		
7.	Battery housing		
8.	Battery housing screw		
9.	Pressure needles: elements that transmit the force of the compression plate to the sensors.		
10.	Compression plate retaining clip		
11.	Compression plate hook		
12.	Pressure needle guide holes		
13.	Insertion tab		
14.	Foam plate		

- (c) Finally, the plate is maintained in place by locking the lever clasp (1)



FRANCEMED- 34, avenue du Docteur Durand 94110 ARCUEIL (France) SRN:FR-MF-000008936 Tel: (33-1) 46 11 16 20 Email: contact@medicalex.info Website: www.medicalex.info	FRANCEMED- 34, avenue du Docteur Durand SRN:FR-MF-000008936 Tel: (33-1) Email: contact@medicalex.info Website: y
Skith-RdP-D0008936 [ef: (34) 196 11 16 20 INSTRUCTIONS FOR USE: PRESSURE SENSOR (Part No. 38.415.91) INSTRUCTIONS FOR USE: PRESSURE SENSOR (Part No. 38.415.91) Additional control of the body of the pressure measurements described in the "General instructions for use" section of the body. ACONTRAINDICATIONS Denot use the device for potients with a significant skin lesion of the thoracic wall deformity. ACONTRAINDICATIONS Denot use the device for potients with a significant skin lesion of the thoracic wall deformity. S. AUXESE EFFECTS AND POSSIBLE COMPUTATIONS Denot use the device for potients with a significant skin lesion of the thoracic wall deformity. S. AUXESE EFFECTS AND POSSIBLE COMPUTATIONS Make measurements in the potient may have a vasovagal episode. Practitioner should be prepared to intervene in case It happens. Any possible side effects and complications related to this product are the consequences of inaccurate measurements taken with the device. Erroneous measurements may cause producting a poorly-filting custom-made dynamic compression brace and application of Inappropride pressure on the potient. This can result it: Discontion bedro in the pressure source on the potient. This can result it: Discontion bedro in the teachment teact and ched poin wrong deformity correction bedro in the device. Pressure for Initial Correction (PIC) and the Pressure of Treatment (POT). These measurements teact with the pressure senter by the brace on the thoracic wall. Work the pressure senter by obtain a wall, forigue to the deformity so that the inforced wall to formerission plate. Territed in the device by pressing the black tothon (PIG) (rigues the device by the sensor conciling the pressure sensor to the black of the sensor conciling the pressure sensor to the black of the sensor conciling the pressure sensor to the black of the sensor conciling the pressure sensor to the black of the sensor conciling the pressure sen	 SNRTRAME-000009361 (2): (33-1) Email: contact@medicatex.info Wesserie (1) INSTRUCTIONS FOR USE: PRESSURE SENSO Measuring the Pressure of freatment (POT) The pressure of freatment is measured at the initial placement of the brace, After assembling the brace, adjusting the straps and fifting the compression that the pressure essors case on the compression plate duched to the the ducke on by pressing the black button. The device resets itself. Close the brace by clasping the hinge. Ask the potient to breathe normally. Press the blue button. The device reset itself. Close the brace by clasping the black, button. The device resets itself. Close the brace by clasping the blace button. The device reset itself. Close the brace by clasping the blace button. The device reset its is the mean value of the pressure excited by the brace on the chest of the the discons. The POT value must be less that proceed. To avoid discomfort and/or skin lesions, the POT value must be less that brace. Defore carrying out a new POT measurement, turn off the sensor by prettenen follow the instructions in step 2. It is critical to power on the device has been fastened to the brace, but before the compression plate has patient. This ensures that the reset is properly performed. It is imperative to turn on the device only when the sensor is attached to the on the patient to ensure that the trace is done in the right conditions. M • Do not fake any measurements when the LOBAT indicator (3) is displing 9 • Maintenance). The values obtained with the pressure sensor should always be crift the device. The practitioner should always make sure that the patient the device. The practitioner should always make sure that the patient will the device the device to a visual inspection of the device to device the device. The de
Figure 6: How to hold the device to turn it on and while it resets itself S:\QUALITE\Notices d'utilisation\HARNAIS\D0431\-EN_IFU pressure sensor.docx 2023/01 D0431J PAGE: 3/4	S:\QUALITE\Notices d'utilisation\HARNAIS\D0431\D0431J-EN_IFU pressure sensor.docx 2023/01

Durand 94110 ARCUEIL (France) (33-1) 46 11 16 20 ebsite: www.medicalex.info SENSOR (Part No. 36.415.91)

brace, and subsequently at each monthly checkup. mpression plate at the proper height, unfasten the brace hinge. ed to the brace (see para. 2 - Assembly). he compression plate does not touch the patient's chest, while pression plate while the device turns on and resets itself. Turn elf.

levice will display 3 bars for 5 ssure of treatment is this value. chest over these 5 seconds. ess than or equal to 2.5 PSI (≈ the Instructions for Use of the

by pressing the black button, device only when the sensor late has been placed on the



Figure 7: Measuring the POT

to the sling but the compression plate is not exerting pressure

is displayed. In such a case, change the battery (refer to para.

be critically examined to detect a possible maladjustment of patient feels comfortable wearing the brace. levice.

sensor must be carried out only under the supervision of a

xtended period of time.

e packaging.

le damage that could compromise its normal operation.

stances that could damage its surface.

nce. In such a case, the user may have to take appropriate

nect the battery.

relative humidity between 10 and 90% and atmospheric pressure relative humidity between 30 and 60% and atmospheric pressure

