# PATCH DOCUMENTATION

## Change Log: e-Cast operator device (ET3400-T) and sensors (ET3400-WE)

**Sensor Update: Version 1.03.00 (2017/07/17)**
New hardware: new sensor available

**Operator device update: Version 1.05.03/2.05.03 (2017/04/03)**
Spelling mistakes have been corrected.

**Operator device update: Version 1.05.02/2.05.02 (2017/02/21)**
Spelling mistakes have been corrected.

**Operator device update: Version 1.05.01/2.05.01 (2017/02/20)**
Spelling mistakes have been corrected.

**Operator device update: Version 1.05.00/2.05.00 (2017/01/26)**
*New*: annual calibration

**Sensor update: Version 1.02.17 (2015/09/08)**
*Fixed issue:* minor errors when activating the sensors from sleep mode have been corrected.
The activation of the sensors from sleep mode has been improved.
*New:* annual calibration

**Operator device update: Version 1.03.00 (2014/08/25)**
*New:* selection of an orthosis side (left or right leg)

**Operator device update: Version 1.02.00 (2014/07/10)**
*New:* The new menu item "Delete measurements" has been added.
*New:* The ideal position can now be corrected and determined again.

**Operator device update: Version 1.01.04 (2014/05/29)**
**Sensor update: Version 1.02.07 (2014/05/29)**
The energy consumption during Sleep mode of the sensors has been improved.

**Operator device update: Version 1.01.03 (2014/05/19)**
Spelling mistakes have been corrected.

**Operator device update: Version 1.01.02 (2014/04/24)**
**Sensor update: Version 1.02.06 (2014/04/24)**
*New:* The device recognises a tremor.

**Operator device update: Version 1.00.03 (2014/03/06)**
**Sensor update: Version 1.01.05 (2014/03/06)**
*Fixed issue:* the sensors' energy consumption during measurements has been reduced.
*New:* the sensors' sleep mode, when the sensors are stored in certain positions, has been improved.

**Operator device update: Version 1.00.02 (2013/12/04)**
The USB functionality for Windows has been improved.
The measurement of the battery's state of charge has been improved.
*New:* the "new measurement" got a new sub-menu item for the selection of an orthosis type (KAFO, AFO or KO).

**Operator device update: Version 1.00.01 (2013/10/18)**
*Fixed issue:* the measurement of the battery's state of charge has been improved.
Better warning at very low battery's state of charge.

# PATCH DOCUMENTATION

## Change Log: NEURO TRONIC multi-purpose device (ET3830-T) and controller (ET3830)

**Multi-purpose device update: Version 4.03.10 (2021.08.02)**
**Controller update: Version 2.85 (2021.08.02)**
*New:* enable/disable detection of the first step

**Multi-purpose device update: Version 4.03.09 (2021.01.25)**
*New:* mode change setting (adjust the mode change setting for easier mode changing during movement)
**Controller update: Version 2.84 (2021.01.25)**
*New:* mode change setting (adjust the mode change setting for easier mode changing during movement)
*Improvements:* improved first step unlocking in auto mode

**Multi-purpose device update: Version 4.03.08 (2020.11.12)**
*Improvements*: bug fixes related to ET3830
**Controller update: Version 2.83 (2020.11.12)**
*Improvements:* bug fixes

**Multi-purpose device update: Version 4.03.07 (2019.12.16)**
*New*: code for troubleshooting
*Improvements*: bug fixes related to ET3830
**Controller update: Version 2.82 (2019.12.16)**
*Improvements:* bug fixes

**Multi-purpose device update: Version 4.03.06 (2019.08.14)**
*Improvements*: renewed icons, small bug fixes
**Controller update: Version 2.81 (2019.08.14)**
*New*: step counter for each mode (Free, Auto, Lock)

**Multi-purpose device update: Version 4.03.05 (2019.05.15)**
**Controller update: Version 2.80 (2019.05.15)**
*New*: rotation safety (adjust rotation safety for easier unlocking)

**Multi-purpose device update: Version 4.03.02 (2018/11/21)**
**Controller update: Version 2.69 (2018/11/21)**
*Fixed issue*: improved data processing in e-Motion

**Multi-purpose device update: Version 4.03.01 (2018/11/08)**
**Controller update: Version 2.68 (2018/11/08)**
*Fixed issue*: reduced sensitivity of mode change at standstill

**Multi-purpose device update: Version 4.03.00 (2018/09/17)**
*New*: mid stance settings, terminal swing settings
**Controller update: Version 2.67 (2018/09/17)**
*New*: mid stance settings, terminal swing settings, mode change only at standstill

**Multi-purpose device update: Version 4.01.06 (2018/05/17)**
**Controller update: Version 2.66 (2018/05/17)**
*New:* adjustable unlocking moment

**Multi-purpose device update: Version 4.01.04 (2017/05/05)**
No change, only a new version of the controller ET3830: v.2.65.
**Controller update: Version 2.65 (2017/05/05)**
*Fixed issue:* in Auto mode, the controller does no longer switch to Free mode when having a low battery status but remains locked.
Improved response to radio signals.

**Multi-purpose device update: Version 4.01.03 (2014/12/22)**
The signal function is now automatically switched on after an update.

**Multi-purpose device update: Version 4.01.02 (2014/12/12)**
The battery check during carrying out a controller update has been improved.
**Controller update: Version 2.64 (2014/12/12)**
*Fixed issue*: When sound settings were changed, the Auto mode sometimes did not respond any more.

**Multi-purpose device update: Version 4.01.01 (2014/09/25)**
Batteries have to be fully charged for an update.
**Controller update: Version 2.61 (2014/09/25)**
*New:* Signal function for p-Motion available.
*Fixed issue:* The calibration has been improved (signal filter).
The stability in e-Motion has been improved.

**Multi-purpose device update: Version 4.01.00 (2014/09/10)**
*New:* Signal function for p-Motion available.
**Controller update: Version 2.60 (2014/09/10)**
*Fixed issue:* The system joint switched from e-Motion to p-Motion unintentionally.
*New:* Settings will be saved on an external storage unit now (for higher reliability).
Rechargeable batteries of the controller have to be fully charged for an update.
The step count in e-Motion is saved more often.

**Multi-purpose device update: Version 4.00.10 (2014/07/11)**
**Controller update: Version 2.52 (2014/07/11)**
The controller calibration has slightly been adjusted.
The e-Motion technology has been improved.

**Multi-purpose device update: Version 4.00.09 (2013/10/29)**
**Controller update: Version 2.50 (2013/10/29)**
Shock detection was added to the controller for better resistance to shocks/hits.

**Multi-purpose device update: Version 4.00.08 (2013/10/31)**
*Fixed issue:* A wrong message was displayed when a user tried to update an old controller version that cannot be updated.
Minor spelling mistakes have been corrected.

**Multi-purpose device update: Version 4.00.07 (2013/10/24)**
Minor spelling mistakes have been corrected.

**Change Log: NEURO TRONIC multi-purpose device (ET3840-T), controller (ET3830, ET3840, ET3845) and Remote Control (ET3840-P)**

**Multi-purpose device update: Version 5.03.10 (2021.08.02)**
**ET3830 Controller update: Version 2.85 (2021.08.02)**
**ET3840 Controller update: Version 3.00.48 (2021.08.02)**
**ET3845 Controller update: Version 3.00.48 (2021.08.02)**
*New:* enable/disable detection of the first step

**Multi-purpose device update: Version 5.03.09 (2021.01.25)**
*New:* mode change setting (adjust the mode change setting for easier mode changing during movement)
**ET3830 Controller update: Version 2.84 (2021.01.25)**
*New:* mode change setting (adjust the mode change setting for easier mode changing during movement)
*Improvements:* improved first step unlocking in auto mode
**ET3840 Controller update: Version 3.00.47 (2021.01.25)**
*New:* mode change setting (adjust the mode change setting for easier mode changing during movement)
*Improvements:* improved first step unlocking in auto mode
*Improvements:* bug fixes
**ET3845 Controller update: Version 3.00.47 (2021.01.25)**
*New:* mode change setting (adjust the mode change setting for easier mode changing during movement)
*Improvements:* improved first step unlocking in auto mode
*Improvements:* bug fixes

**Multi-purpose device update: Version 5.03.08 (2020.11.12)**
*Improvements*: bug fixes related to ET3830
**ET3830 Controller update: Version 2.83 (2020.11.12)**
*Improvements:* bug fixes

**Multi-purpose device update: Version 5.03.07 (2019.12.16)**
*New*: code for troubleshooting
*Improvements*: bug fixes related to ET3830
**ET3840-P Patient remote control update: Version 1.0.12 (2019.12.16)**
*Improvements*: connection with controller
**ET3830 Controller update: Version 2.82 (2019.12.16)**
*Improvements:* bug fixes

**Multi-purpose device update: Version 5.03.06 (2019.08.14)**
*Improvements*: renewed icons, small bug fixes
**ET3830 Controller update: Version 2.81 (2019.08.14)**
**ET3840 Controller update: Version 3.00.46 (2019.08.14)**
**ET3845 Controller update: Version 3.00.46 (2019.08.14)**
*New*: step counter for each mode (Free, Auto, Lock)

**Multi-purpose device update: Version 5.03.06 (2019.08.14)**
**ET3830 Controller update: Version 2.81 (2019.08.14)**
**ET3840 Controller update: Version 3.00.46 (2019.08.14)**
**ET3845 Controller update: Version 3.00.46 (2019.08.14)**
*New:* step counter for each mode (Free, Auto, Lock)
*Improvements:* renewed icons and small bug fixes

**Multi-purpose device update: Version 5.03.05 (2019.05.15)**
**ET3830 Controller update: Version 2.80 (2019.05.15)**
**ET3840 Controller update: Version 3.00.45 (2019.05.15)**
**ET3845 Controller update: Version 3.00.45 (2019.05.15)**
*New*: rotation safety (adjust the protection against unintentional unlocking during rotation movements)

**Multi-purpose device update: Version 5.03.04 (2019.01.23)**
**ET3840 Controller update: Version 3.00.42 (2019.01.23)**
*New:* indication of bluetooth connection
**ET3845 Controller update: Version 3.00.42 (2019.01.23)**
*New:* indication of bluetooth connection

**Multi-purpose device update: Version 5.03.03 (2018.12.17)**
**ET3840-P Patient remote control update: Version 1.0.11 (2018.12.17)**
*Fixed issue*: unreliable connection with controller

**Multi-purpose device update: Version 5.03.02 (2018/11/21)**
*Fixed issue:* troubleshooting in the updating process
*Fixed issue:* menu item Battery Quality was sometimes not accessible
**ET3830 controller update: Version 2.69 (2018/11/21)**
*Fixed issue*: improved data processing in e-Motion

**Multi-purpose device update: Version 5.03.01 (2018/11/08)**
**ET3830 controller update: Version 2.68 (2018/11/08)**
**ET3840 controller update: Version 3.00.41 (2018/11/08)**
**ET3845 controller update: Version 3.00.41 (2018/11/08)**
*Fixed issue*: reduced sensitivity of mode change at standstill

**Multi-purpose device update: Version 5.03.00 (2018/09/17)**
*New*: mid stance settings, terminal swing settings
**ET3830 controller update: Version 2.67 (2018/09/17)**
**ET3840 controller update: Version 3.00.40 (2018/09/17)**
**ET3845 controller update: Version 3.00.40 (2018/09/17)**
*New*: mid stance settings, terminal swing settings, mode change only at standstill
**ET3840-P Remote Control Update: Version 1.00.10 (2018/09/14)**
LED signals have been updated according to the manual.

**Multi-purpose device update: Version 5.00.06 (2018/05/17)**
No change, only a new version of the controller ET3830: v.2.66.
**ET3830 controller update: Version 2.66 (2018/05/17)**
*New:* adjustable unlocking moment