User Manual
CENTOR WIRELESS

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1. Introduction

1.1. Presentation

Thank you for choosing the CENTOR WIRELESS display manufactured by ANDILOG Technologies to perform your measurements.

This instrument is the result of more than 35 years of experience in force and torque measurement. It integrates the latest technologies available to offer you high performance and quality of measurement.

1.2. Definitions

To make this manual easier to understand, here are some definitions of terms frequently used throughout the manual.

1.2.1. Bluetooth sensor / WLC sensor :

The Centor Wireless communicates via Bluetooth with Andilog sensors. It is compatible with all the sensors of the range called WLC. These sensors are designed and manufactured by Andilog with its own technology and are not compatible with other displays. The Centor Wireless can work with both force and torque sensors.

1.2.2. Calibration

The WLC load cells are delivered calibrated by Andilog Technologies with a COFRAC calibration certificate with measurement report. It is generally recommended to calibrate force measurement instruments once a year unless there is a different internal procedure. Andilog Technologies guarantees at each calibration a complete verification of the instrument as well as an adjustment of the calibration to guarantee a perfect accuracy.

The CENTOR WIRELESS display does not require periodic calibration. All calibration parameters are stored in the WLC sensors and are read by the display at the time of connection. The Centor Wireless only processes data but does not take measurements.

2. Getting started

ATTENTION : Opening the product. Check that the Centor Wireless was supplied in the original case and that it was not damaged during transport. In case of doubt, contact Andilog to obtain additional information to verify the proper functioning of your display.

2.1. Opening the product

The Centor Wireless comes by default in a case with a charger and an adjustable stand on the back.

Display Centor Wireless

Adjustable foot attached to the back of the case

USB charger

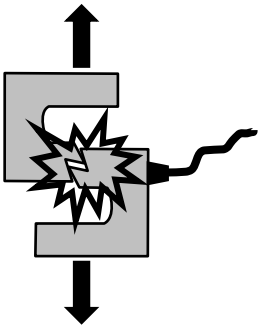
2.2. Recommendations before use

2.2.1. Battery and recharging

The Centor Wireless is equipped with a Lithium Polymer (Lipo) 3.7V battery. The battery can reach its maximum capacity of use after several cycles of charge and discharge. In case of long-term storage of the device, it is recommended to store the display with a half full battery.

Plug the supplied charger into the USB port to charge the Centor Wireless display. The red LED lights up during charging and goes out once the battery is charged.

2.2.2. Sensors



Despite the overload protection provided by this instrument, the application of a force greater than the capacity of the sensor can damage the gauge. The instrument will lock up if 120% of its capacity has been exceeded 10 times. You will have to return your sensor to ANDILOG Technologies for verification of proper operation.

It is important that the measured values are generally lower than 90% of the capacity of the sensor. Constantly using the sensor beyond 90% of its capacity can cause premature wear of the sensor. When the load cell is used on a motorized frame, it is necessary to program the frame to stop when the force approaches the maximum capacity of the load cell. This

limit must take into account the fact that at a high speed a frame does not stop immediately and the risk of damaging the sensor is high due to the inertia of the motor.

2.2.3. Precautions during testing

Most of the tests performed with Andilog Technologies instruments are destructive tests. The hazards associated with this type of testing require that our instruments be used by experienced and trained operators. By the nature and use of the equipment sold by Andilog, the purchaser's acceptance of Andilog Technologies' products constitutes an acceptance of the risks and damages that may result from the use of Andilog's instruments.

2.2.4. Environmental conditions

- Operating temperature: 0 to 35° C / 32 to 95 F°

- Storage temperature: -20 to 45° C / -4 to 113 F°

- Relative humidity: 5% to 95%, non-condensing

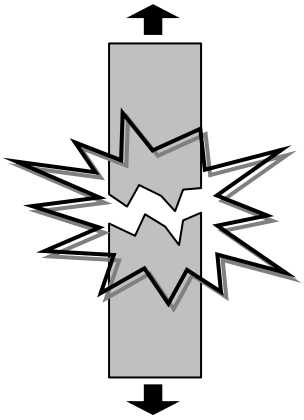
- Maximum operating altitude: 3 000 m / 9900 feet

2.2.5. Guarantee

Subject to the conditions below, Andilog Technologies warrants to the purchaser that it will repair or replace at no charge new instruments sold subject to normal use and maintenance. This warranty applies if the purchaser detects a defect in workmanship or materials during a period of 2 years from the date of shipment.

The conditions of application are:

- ANDILOG Technologies has been notified in writing of the defect before the end of the warranty period
- Products are shipped to Andilog with prior approval from Andilog.
- All transportation costs are paid by the buyer to send the material to Andilog
- The products have been used and maintained under normal conditions of use



Any repair or replacement made by the seller without Andilog's agreement voids the warranty.

In no event shall Andilog be liable for any damages, business interruption, or downtime caused by the purchase, use, or failure of our products. This is true even if Andilog Technologies has been informed of the possibility of such damages.

The accuracy of our devices is guaranteed at the time of shipment at the value indicated in our documentation or offers.

If products are damaged during shipment, notify the carrier and Andilog immediately.

Warranty is void in case of accident, misuse or abuse.

Calibration, overloaded sensors, consumable parts, such as batteries, are not covered by the warranty, unless the damage is due to a defect in material or workmanship

2.3. Start your Centor Wireless

Before pressing the on/off button, make sure that the sensor you want to use is on (green LED fixed on the sensor).

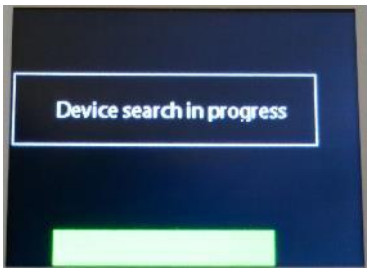
To start the force gauge, **press the on/off button**: an information screen indicating the status of the display appears for 5 seconds, then the main measurement screen is displayed.

Information screen at startup :

If you have already connected a sensor and it is turned on, Centor Wireless will automatically connect to it and you will be taken to the measurement screen. Otherwise, Centor Wireless will search for available sensors.

2.4. Connecting a new sensor

Once past the startup screen, if you have never connected a sensor or if the Centor Wireless cannot find a sensor, it will display the search screen:



Once the search is complete, the Centor Wireless will display all available sensors in a list. Select the sensor you want to connect using the arrow buttons and confirm with the top button. The Centor Wireless will connect to the sensor.

If no sensor is displayed or if the desired sensor is not in the list :

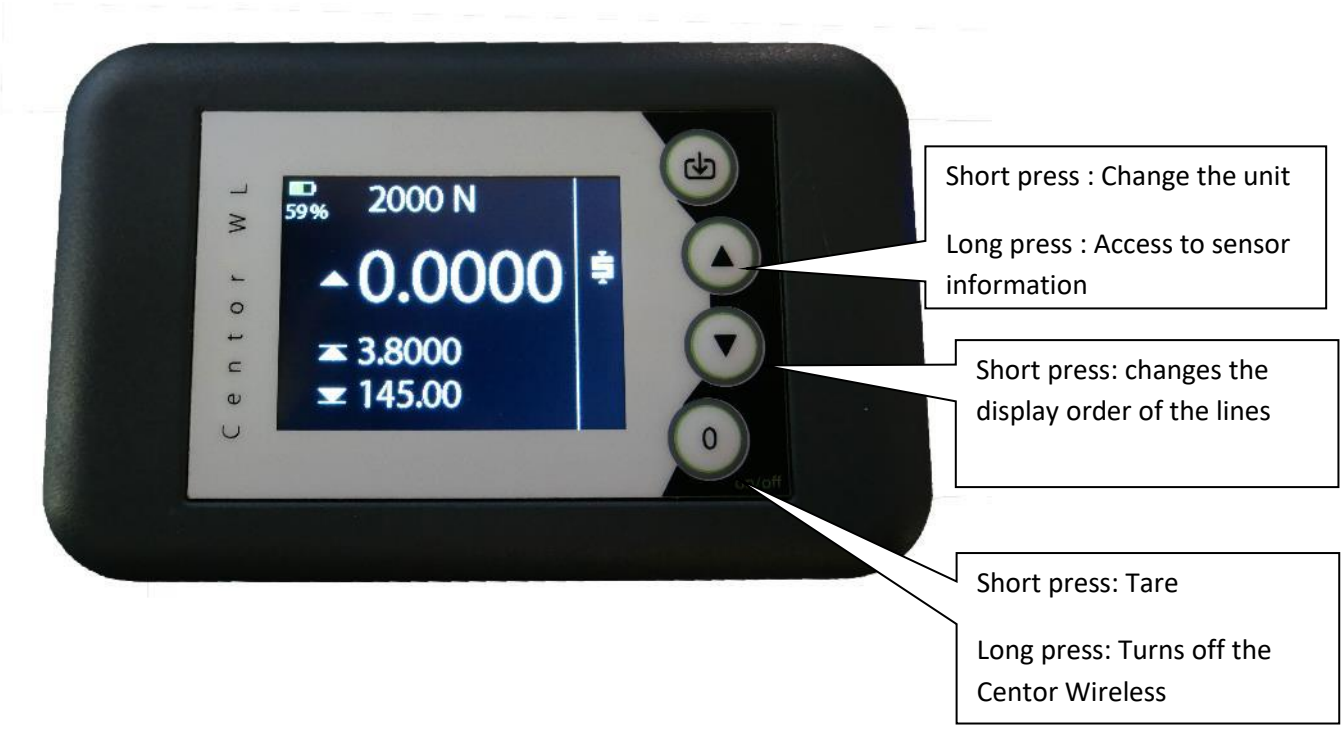
1. Check that your sensor is turned on (green led of the sensor lit up)
2. Relaunch a search using the bottom button (0) of the Centor Wireless

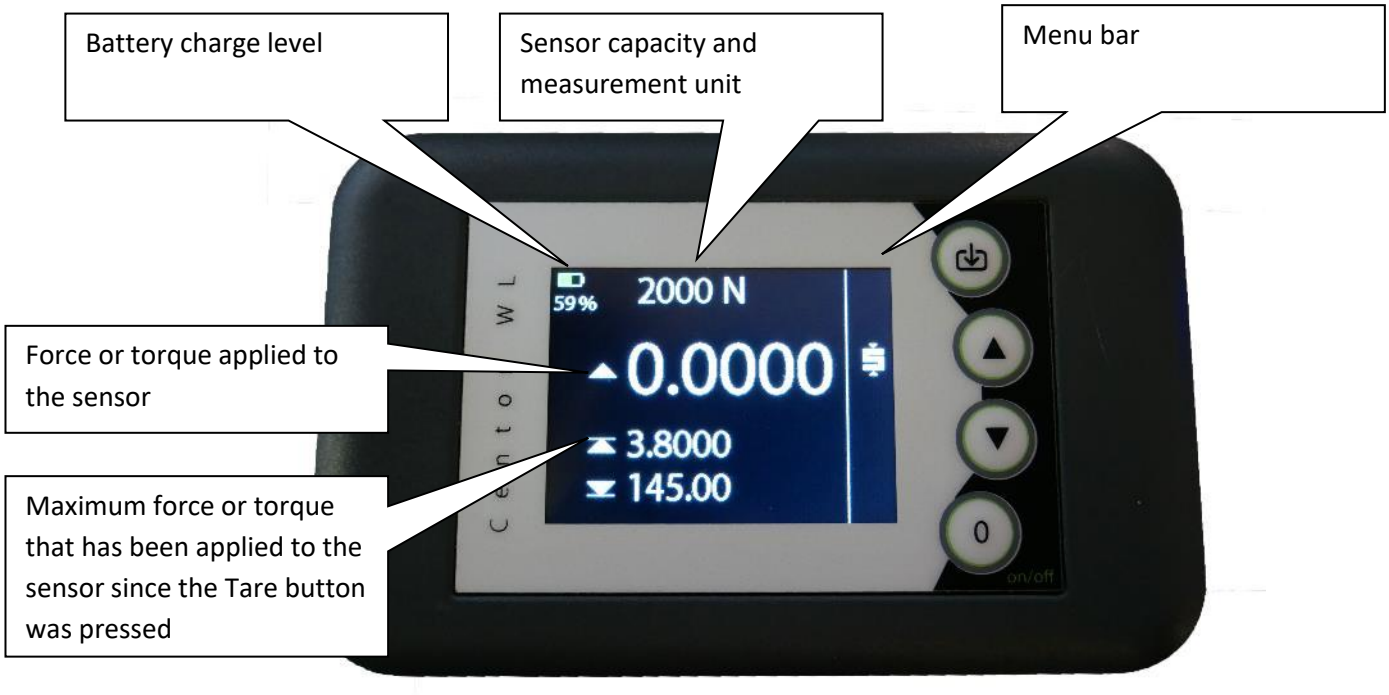
If the LED on your sensor is on but blinking, the sensor is already connected. Press and hold the sensor button to reset the connection.

Once connected, the Centor Wireless should display a screen similar to the one below:

2.5. Interface of the Centor Wireless

The Centor Wireless has 4 buttons that have different functions. These buttons can be used with short or long presses. Depending on the type of press and the menu the actions are different.





2.6. Doing the Zero or Tare

Before each measurement it is important to zero or tare the gauge. To do the zero or the tare before a test, press the 0 button.

The gauge will take into consideration the weight of the accessories (handle, hook, plate, ...) attached to the sensor rod. The total weight of the accessories on the load cell must not exceed 20% of the capacity of the load cell to be able to tare. The tare resets the maximum values to 0.

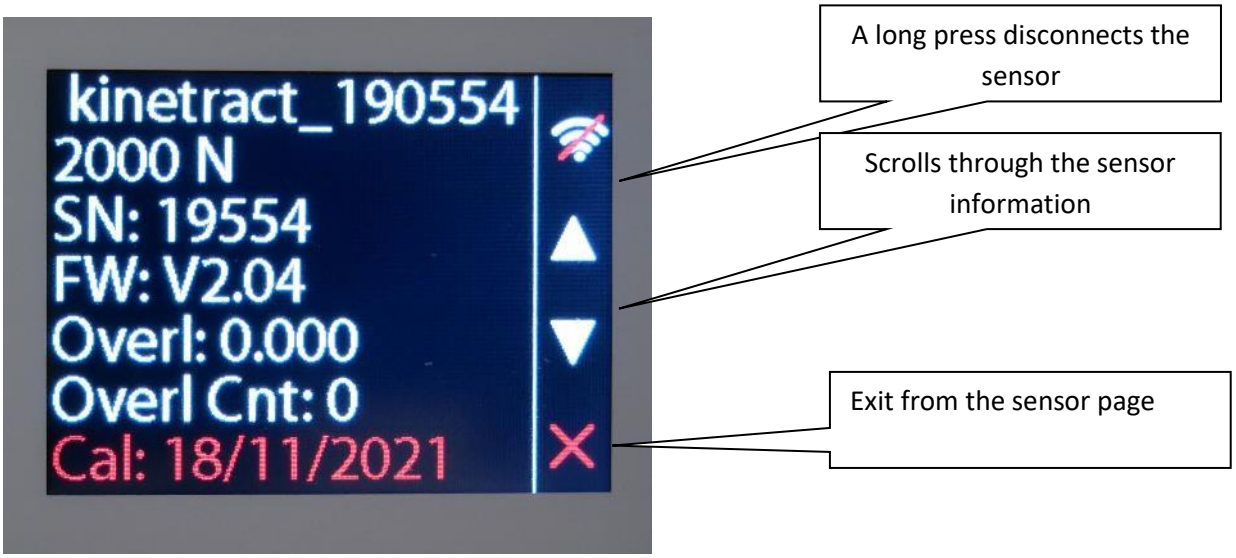
2.7. Changing the display of the measurement screen

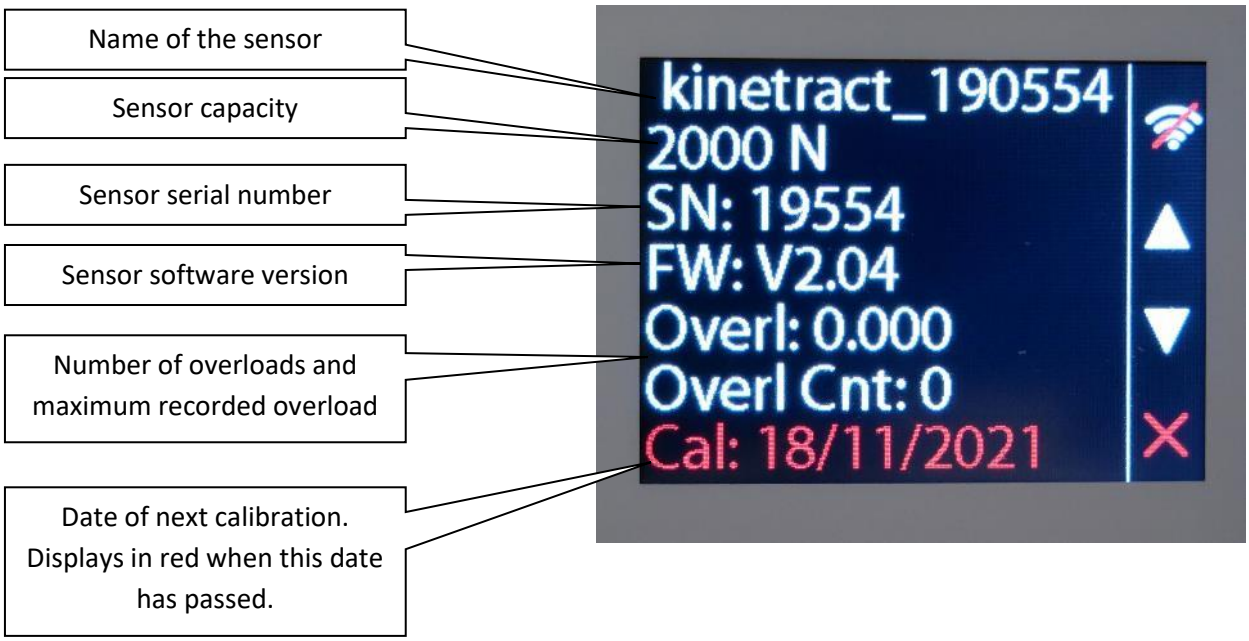
You can change the order in which the lines are displayed on the Centor Wireless by briefly pressing the down arrow button. Each press shifts the lines downward. The bottom line becomes the top line with the largest font.

3. Information of the sensor

3.1. Display the information

Long press the up arrow button to display the information of the connected sensor. You will be taken to a new screen. You can use the up and down arrows to navigate through this screen.





3.2. Disconnecting a sensor

To disconnect a sensor, from the sensor menu, long press the first button. Once the sensor is disconnected, the Centor Wireless automatically starts searching for available sensors.

4. Maintenance

4.1. Changing the date and time

The date and time of the Centor Wireless can be set. To do this, start the display and on the start screen with the Andilog logo press and hold the red circled keys below:

You will then be taken to the date and time setting menu. Use the up and down arrows to change the values.

- The green tick in short press to validate a value and go to the next
- The red cross to exit without saving
- The green tick with a long press to exit and save