



iTW  
Cranes

## Marking of notices

Dangers and other important notices are marked as follows in this system manual:



### **WARNING**

A Warning indicates a hazardous situation which, if not avoided, could result in death or serious injury and gives instructions to take precautions to avert danger.



### **CAUTION**

A Caution indicates a dangerous situation; it also warns of damage to property and gives instruction to avert danger.



### **IMPORTANT**

This message indicates a possibly damaging situation for the product and provides instructions to avoid the possibly damaging situation.

### **NOTE**

Usage instructions and information, supplementary comments and recommendations for the user, but no dangerous situation.

*Declaración de conformidad:*

*27.01.2012*

*For family product range:*

*iTW*

*2004/108/EC DIRECTIVE 2004/108/EC OF THE EUROPEAN PARLIAMENT AND OF THE*

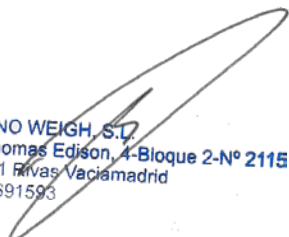
*COUNCIL of 15 December 2004 on approximation of the laws of the member States relating to electromagnetic compatibility and repealing Directive 89/336/EEC- Short: EMC Directive*

*Conformity is declared with reference to the following harmonized European Standards.*

*EN 12895                      2000*

*EN 13309                    2010*

*EN ISO 14982              2009*

  
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## Información General

iTWsystems are designed to provide relevant data to crane operator, required normal machine use. System components will supervise crane functions and display continuous reading of, machine lifting capacity. Data will be provided in accordance with the geometrical situation of crane: boom angle and length, working radius, maximum lifting load rated from reeving of hook.

In such cases where working exceeds the crane configuration limits, iTW CRANES will advise it by means of visual and acoustic alarms, and electrical interruption of cut-out crane line.

## Warning.

iTW CRANES, it is an operational crane operator help. Its wrong handling or bad components conditions can provoke serious personal and material damages.

Never iTW will be a substitution of good criteria of operator machine.

Responsability of a correct handling of the crane will bear by crane operator. He shall read and understand the present user manual before using.

## Components Description.

- iTW CRANE module, with following features:

- Boom length.
- Angle or Radius.
- ACTUAL LOAD.
- MAXIMUM LOAD.
- Operation Mode set.
- Reeving No.
- Load moment
  - o Bar-graph.

- Caja de Conexión.

- Cable reel:

- Angle and length sensor integrated.

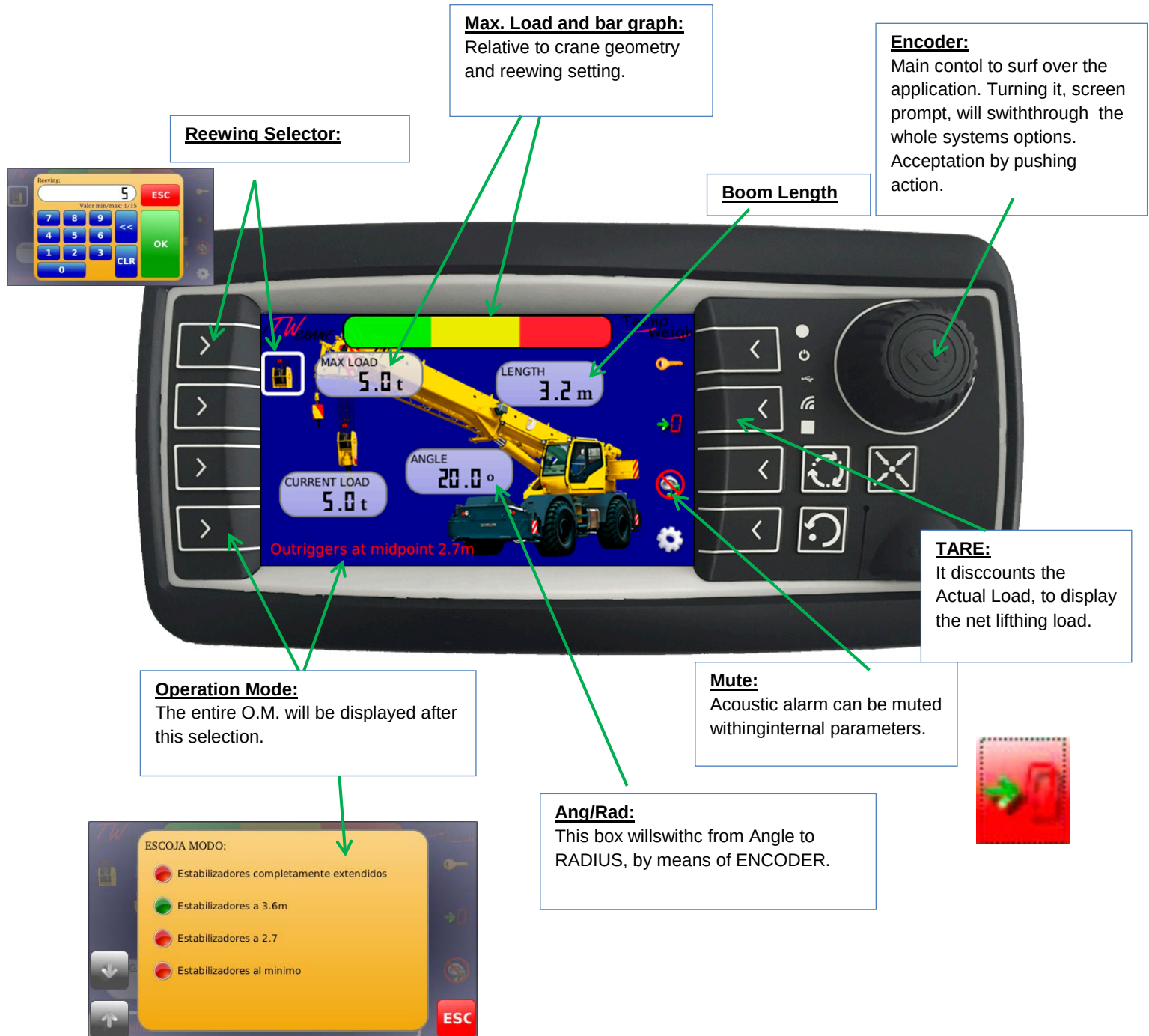
- Pressure Sensors:

- Cable guide.

- A2b kit:

- A2b switch.
- Counterweight with chain.

## Main screen.



## Working shamples.

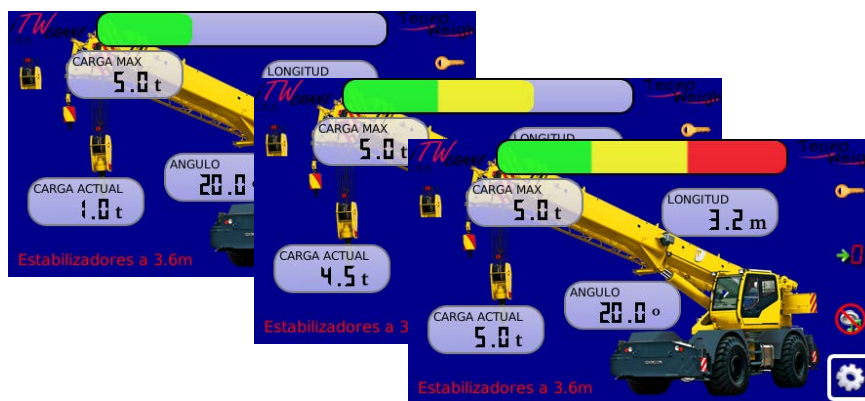
### Bar-graph:

Following images show, different status of bar graph, will be lit in according to lifting working status: green, yellow and red.

Maximum level of function will be rated in according to geometry and number of rewings.

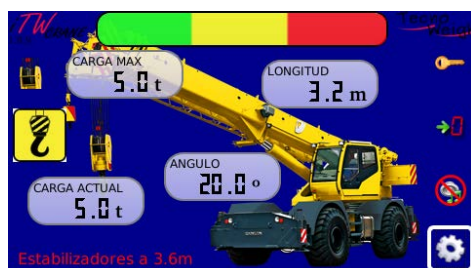


**Make Sure, Parts of Lines match with the real crane configuration.**



### Anti-two-block device (A2B)

Fitted on top of the boom, this device is designed together with the counterweight (C.W.) with chain, to avoid hook and boom collision. When the C.W. is pushed by the hook, internal switch will be open interrupting the signal to the C.P.U. and the cut-out relay will drop to avoid hoisting up, telescoping and lowering boom movements. The suitable icon will be displayed on screen, at same time.



## Bridging.

iTW system is programmed to allow the cut-out situation in according to EN-13000. It only can be used if lifting situation is bellow 112% of nominal load.

- Stay activated for 15 sec.
  - Beyond that time, system will be blocked for 5 min period time.



Bridging will annul the normal system working. The entire movements will be permitted. Never use this option to enhance the lifting crane capacity.

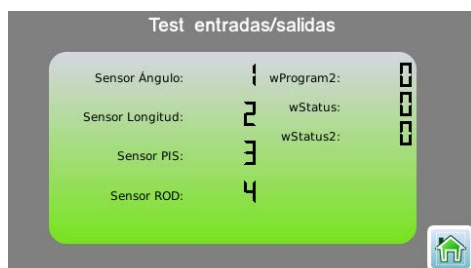
## Menu



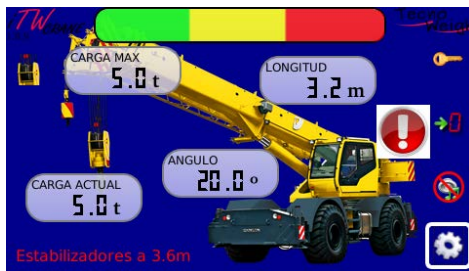
Operator can set the system language, by means, as usual the ENCODER use.

Also TEST INPUTS/OUTPUTS screen will be called.

That functionality allows checking the inputs status of system signals withing a range of 4000 to 2000 microAmpere.



Warning alert icon will be displayed in case of one of this sensor is out of range.



## Daily inspection.



**These tests will be carried out carefully to avoid personal or material damaged.**

Before crane operation, following items shall be checking:

1. Electrical connections.
2. Installation doesn't present any visual damage.
3. Free and appropriate rotation of cable reel.
4. Free movement of A2b system.



In case of operator wouldn't have direct view of hook, should be assisted by external helping. The crane operator must be ready to stop movement immediately in case of SLI malfunction. If possible, make a manual actuation to A2b switch and check the system working, screen icon, acoustic alarm, cut-out movements.





**If any of these situations is not correct, contact to Service department, to correct the failures.**

Also check:

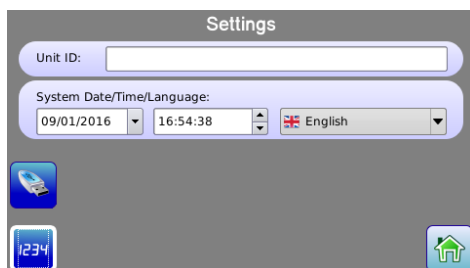
1. Boom angle and radius readout.
2. Lifting known load.

## **Contact**

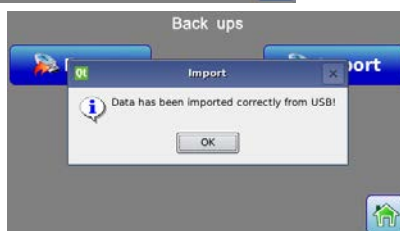
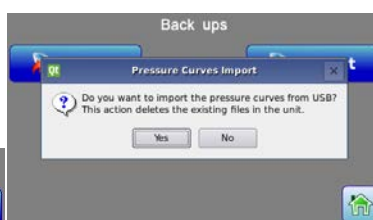
For further data or details please contact to Service department: [www.tecnoweigh.com](http://www.tecnoweigh.com)

## Enhanced options

From settings menu:



Go to USB icon



Once the right password was inserted, Back up menu is displayed. By means of this menu is possible to export calibration data to an external USB, or in the other hand, import data to C.P.U.

iTW creates, when exporting data is selected, a folder with Device Serial Number will be created



Be sure no iTW folder is on USB, if so, newer will overwrite previous one.

In case of import data, match the folder name of iTW folder with the SN of new device.

[illegible]