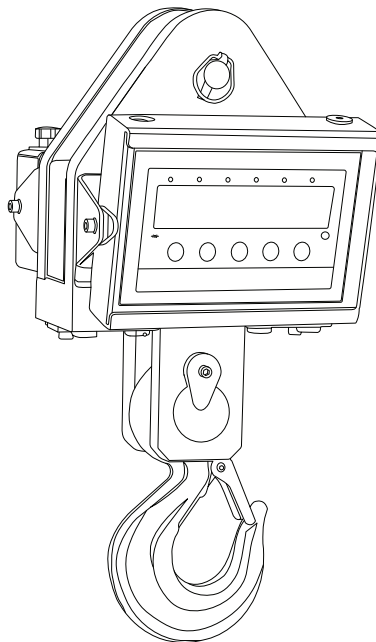


# MCWHU

Professional electronic suspended crane scale

USER, INSTALLATION, MAINTENANCE INSTRUCTIONS

ENGLISH





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Dear Customer, Thank you for choosing a **DINI ARGEO** product.

The suspended crane scale you have purchased is ideal for weighing in industrial environments.

It is equipped with high performance weighing electronics, precise and durable, and features a multifunctional program that can help you perform your daily tasks. Before using the instrument, please read this instruction manual carefully in order to be able to use it in complete safety and to learn about all of the functions it offers.

## Safety information - Warnings

The safety precautions described in this manual, marked with the  symbol, must be followed during all installation, use, maintenance or repair stages of the weighing system.

Any use other than that reported in this manual, as well as not following the safety precautions, relieves the manufacturer from any responsibility and will void the product warranty.

- Read this manual carefully before performing any operation.
- NEVER load the suspended crane scale beyond the maximum capacity stated on the plate of the weight readout instrument.
- It is forbidden to use the scale in environments where there is the danger of fire or explosion
- Apply the load to the hook only when the load is resting on the ground.
- Before using the suspended crane scale, ensure it is in perfect working order.
- For correct weighing results, the load must be raised by at least 5-10 cm from the ground (Paragraph “Load lifting and weight reading”).
- Do not expose the suspended crane scale to atmospheric agents (sun, rain, etc.).
- Use the suspended crane scale in non-condensing environments with moderate temperature and humidity levels.
- Use the suspended crane scale where there are no vibrations.
- Carefully read and apply the description of the suspended crane scale in this manual.
- To clean the suspended crane scale, avoid the use of solvents or aggressive substances.
- It is forbidden to make any modifications to the suspended crane scale if not authorised by the manufacturer.
- It is forbidden to use the suspended crane scale when it no longer fulfils the safety criteria.
- It is forbidden to use flammable products to clean the instrument.
- It is forbidden to wash the suspended crane scale with direct water jets.
- Do not pour liquids on the indicator.
- Anything not expressly described in this manual constitutes improper use of the equipment.

*i*



- The crossed-out wheelee bin symbol on the product indicates that the product, at the end of its working life, must be taken to the appropriate separate collection centres or returned to the retailer when a new equivalent product is purchased.
- Appropriate separate collection of the product for subsequent recycling helps to avoid potential negative effects on the environment and health and promotes the recycling of materials. Unauthorised disposal of the product by the user will result in the application of administrative sanctions provided for by law.

## IDENTIFICATION

### Identification of the Manufacturer

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Manufacturer **DINI ARGEO s.r.l.**  
Address **Via della Fisica, 20**  
**41042 Spezzano di Fiorano Mod.se (MO) - Italia**  
Tel. +39 0536 843418 Fax +39 0536 843521  
info@diniargeo.com

### Machine identification

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Machine **DIGITAL SUSPENDED CRANE SCALE**  
Model **MCWHU**

### Identification plate

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The machine is equipped with an identification plate positioned on its right side.

The identification details of the machine, to be cited to the Support Centre if required, are provided on the plate.



#### WARNING

It is strictly forbidden to remove the CE identification plate and/or replace it with other plates.  
If, for accidental reasons, the plate is damaged or removed, the customer must inform the Manufacturer.



## EC Declaration of Conformity

The EC Declaration of Conformity is available at: [www.diniargeo.com](http://www.diniargeo.com), by entering the serial number on the identification plate of the product.



A RICE LAKE WEIGHING SYSTEMS COMPANY



### EU DECLARATION OF CONFORMITY

EU-KONFORMITÄTSERKLÄRUNG, DÉCLARATION UE DE CONFORMITÉ, DECLARACIÓN DE CONFORMIDAD, DICHIARAZIONE DI CONFORMITA' UE, DECLARAÇÃO UE DE CONFORMIDADE, DECLARAȚIA UE DE CONFORMITATE, IZJAVA O SKLADNOSTI, ES ATITIKTIES DEKLARACIJA, ES VYHLÁSENIE O ZHODE, EU DECLARATI DEKLARACJA W ZODNOŚCI, EU SZFELELŐSÉGI NYILATKOZAT

**English** We declare under our sole responsibility that the products to which this declaration refers to, conform with the following standard(s) or other regulations document(s).

**Deutsch** Wir erklären unter unserer alleinigen Verantwortung, dass die Produkte auf die sich diese Erklärung bezieht, den folgenden Normen und Regulierungsbestimmungen entsprechen.

**Français** Nous déclarons sous notre responsabilité que les produits auxquels se rapporte cette déclaration sont conformes à la/aux norme/s suivante/s ou au/aux document/s normatif/s suivant/s.

**Español** Nosotros declaramos bajo nuestra responsabilidad que los productos a los que se refiere la presente declaración, están en conformidad con la/s siguiente/s norma/s o documento/s normativo/s.

**Italiano** Noi dichiariamo sotto nostra unica responsabilità che i prodotti ai quali si riferisce la presente dichiarazione, sono conformi alla/e seguente/i norma/e o documento/i normativo/i.

**Portugues** Declaramos sob nossa exclusiva responsabilidade que os produtos a que se refere esta declaração, são conformes ao seguinte padrão eo documento de regulamentação.

**Romana** Declaram pe propria raspundere ca produsele la care se refera aceasta declaratie sunt conforme cu urmatoarele standarde sau alte documente normative.

**Slovene** S polno odgovornostjo izjavljamo, da so izdelki, na katere se nana ta izjava o skladnosti, skladni s sledečim/imi standardom/i ali normativom/i dokumentom/i.

**Lietuvių** esame visiškai atsakingi už tai, kad produktai, kurie nušildomi šioje deklaracijoje, atitinka šiuos standartus ar kitus reglamentavimo dokumentus.

Fabbricante/Manufacturer/Fabricant/Hersteller/Gamintojas:	DINI ARGEO S.r.l. Via della Fisica,20 Fiorano Modenese (MO) Italy	
Tipo/Type/Tipas/Tipas/Typ/: Modello/Model/Code/Modell/Modello:	MCWHU	MCWHU10-3
Numero di serie/Serial number/Numéro di série/Seriennummer/Serijinis numeris/Sériové číslo:	dini_mcwhu	
N° CE del Tipo/ EC type Examination certificate/ CE de type /J-Baumusterprüfung/ Bescheinigung/ /EB tipo patvirtinimo sertifikatas/ES certifikát typu :	0200-NAWI-06082 Notified Body FORCE CERTIFICATION	
Certificato di prova / Parts (Test) Certificate / Certificat (d'essais) / Legutachten (Prüfschein)/ Bandygų sertifikatas/Test certifikát/Tipusenged	0200-WL-05741	

EU Directive	Standards
2014/30/EU EMC	EN 61325-1 : 2015
2014/35/EU LVD	EN 61010-1 : 2011
2011/65/EU (RoHS)	EN 61325-1 : 2015 EN 61010-1 : 2011 EN 61325-2 : 2015 EN 61325-3 : 2015 EN 61325-4 : 2015 EN 61325-5 : 2015 UNI EN 13889
2006/42/EC	La persona autorizzata a costituire il fascicolo tecnico presso la sede del fabbricante è la Direzione Tecnica./The person authorised to compose the technical file at the premises of the manufacturer is the Technical Management. / Die autorisierte Person, die die technischen Dokumente im Firmensitz verwaltet, ist das technische Management. / La personne autorisée à constituer le dossier technique chez la siège du fabricant est le directeur technique. / La persona autorizada a constituir el expediente técnico en la sede del fabricante es la Dirección Técnica./Asmuo, įgaliotas sudaryti techninę bylą gamintojo patalpose, yra technikos tvarkytojas./ Autorizovaná osoba, ktorá má oprávnenie spravovať technickú dokumentáciu výrobcu je technický manažment./Osoba upoważniona do tworzenia dokumentacji technicznej w siedzibie producenta jest Kierownictwo techniczne.

We declare that the products are only affected by minor or formal changes with respect to the new edition of the standards and they still comply with the above mentioned Directives. These changes are not relevant for the compliance with the essential health and safety requirements. This declaration is therefore valid if the marking and the certificates of the above mentioned products correspond to the previous edition of the standards.

Signature  
Mark Johnson Jr.  
President

Fiorano Modenese (MO) Italy, 12/05/2022

## Reference directives

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The machine supplied by **DINI ARGEO s.r.l.** does not fall within one of the categories of machines listed in Annex IV of the Directive; therefore, for the purposes of certifying conformity of the machinery with the provisions of this Directive, **DINI ARGEO s.r.l.** shall apply the conformity assessment procedure with internal check on the manufacture of the machinery, as set out in Annex VIII.

To certify the conformity of the machine with the provisions of the Directive, before placing it on the market **DINI ARGEO** has carried out the risk assessment in order to verify compliance with the essential health and safety requirements of the Directive as well as the tests and checks required by the applied reference standards.

The technical construction file has been prepared in compliance with the provisions of Annex VII of **Directive 2006/42/EC** and is available for inspection by supervisory authorities upon a reasoned request, as required by the laws in force on the matter.

**DINI ARGEO s.r.l.** then places the machine on the market, along with:

- CE Marking
- EC Declaration of Conformity
- Instruction manual for use, installation and maintenance (Documentation drawn up according to section 1.7.4 of Machinery Directive 2006/42/EC)

Please note that the machine has been designed according to the following Directives:

- **2006/42/EC Machinery Directive**
- **2014/30/EU Electromagnetic Compatibility Directive**
- **2011/65/EU (RoHS)**

And that the following harmonised standards have been applied:

- **EN 61000-6-2: 2005**
- **EN 61000-6-4: 2007 + A1: 2011**
- **EN 61326-1: 2013**
- **EN 55011: 2009 + A1: 2010**
- **EN 31326-1: 2013**
- **EN 61010-1: 2010**
- **EN IEC 63000: 2018**
- **UNI EN 13155: 2021**
- **UNI EN 13889**

## Documentation supplied

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- **EU Declaration of Conformity** available on the [diniargeo.com](http://diniargeo.com) site in the documents area
- **Testing certificate** available on the [diniargeo.com](http://diniargeo.com) site in the documents area
- **Testing certificate** available on the [diniargeo.com](http://diniargeo.com) site in the documents area
- **Safety and maintenance manual** supplied with the suspended crane scale

# PRELIMINARY INFORMATION

## Recipients

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The manual is intended for operators appointed to using and managing the machine throughout all its technical lifespan stages. It contains the topics referring to the correct use of the machine, in order to maintain its functional and qualitative characteristics unchanged over time. All information and warnings for correct use in complete safety are also provided.

The manual, similarly to the EC compliance certificate, is an integral part of the machine and must always accompany it if moved or resold. It is the responsibility of the user to keep this documentation intact so that it can be consulted throughout the lifespan of the machine itself.

## Supply and storage

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The manual is available in **electronic** format on: [www.diniargeo.com](http://www.diniargeo.com)

Store this manual supplied with the machine, in order for it to be easily consulted by the operator.

The manual is an integral part for safety purposes, therefore:

- **it must be kept intact** (in all its parts). Should it be lost or damaged, it is necessary to request a copy immediately.
- **it must follow the machine until demolition** (even in case of relocation, sale, lease, rental, etc.);

**DINI ARGEO** declines any liability for improper use of the machine and/or damage caused as a result of operations not covered by the technical documentation.

## Updates

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Should the machine require functional modifications or replacements, the revision or update of the manual is the responsibility of the Manufacturer. The Manufacturer is responsible for delivering the update of the manual.

The user is also responsible for ensuring that, if the present document is modified by the Manufacturer, only the updated versions of the manual are actually kept at the points of use.

## Language

The original manual has been drawn up in **Italian**.

Any translations into additional languages must be carried out starting from the original instructions.



The Manufacturer considers himself responsible for the information contained in the original instructions; translations in different languages cannot be fully verified, therefore if an incongruity is detected, it is necessary to follow the original text or contact the Support Centre.

## Operators

In order to establish with certainty the skills and qualifications of the operators involved in the various tasks (commissioning, cleaning, ordinary maintenance), refer to the following table:

Qualification	Description
<b>OPERATOR</b>	<p>Personnel of the user, trained and qualified to use and run the machine for production purposes for the activities it was built and supplied for.</p> <p>They must be able to perform all the operations required for proper functioning of the machine and for the safety of themselves or of any collaborators. They must have proven experience in the correct use of these types of machines and be trained, informed and instructed in this regard. In case of doubt, they must report any anomaly to their superior.</p> <p><b>Note:</b> they are not authorised to carry out any maintenance operation.</p>
<b>MECHANICAL MAINTENANCE TECHNICIAN</b>	<p>Qualified technician able to perform preventive/corrective maintenance on all mechanical parts of the machine subject to maintenance or repair.</p> <p>Qualified technician able to access all machine parts for visual analysis, checking the equipment status, adjustments and calibrations.</p> <p><b>Note:</b> they are not authorised to operate on live electrical systems (if any).</p>
<b>MANUFACTURER'S TECHNICIAN</b>	<p>Technician qualified by the Manufacturer and/or their distributor for complex operations, as they are knowledgeable of the machine's production cycle.</p> <p>This person operates according to the user's requests.</p>






## Symbols used in the manual

Symbol	Description
	Symbol used to identify important warnings for the safety of the operator and/or machine.
	Symbol used to identify information of particular importance in the manual. The information also concerns the safety of personnel involved in using the machine.

## Personal protective equipment

When working near the machine, both for assembly operations and for maintenance and/or adjustment, it is strictly required to comply with the general accident-prevention regulations, therefore it will be important to use the **personal protective equipment (PPE)** required for each individual operation.

The complete list of **personal protective equipment (PPE)** that may be required for the different procedures is provided below:

Symbol	Description
	<b>Obligation to use safety or insulating gloves.</b> Indicates a requirement for personnel to use safety or insulating gloves.
	<b>Obligation to use safety goggles.</b> Indicates a requirement for personnel to use safety goggles.
	<b>Obligation to use safety footwear.</b> Indicates a requirement for personnel to use safety footwear.
	<b>Obligation to use noise protection devices.</b> Indicates a requirement for personnel to use earplugs or earmuffs for hearing protection.
	<b>Obligation to use safety clothing.</b> Indicates a requirement for personnel to wear the specific safety clothing.

The clothing of those operating or maintaining the line must comply with the essential safety requirements defined by **EU Reg. 2016/425** and with the laws in force in the country where the line is installed

## Warranty

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### IMPORTANT

The complete warranty terms are set out in the sales contract.

The conditions foreseen in the commercial contract (if different) have priority over what is provided in this section.

The warranty is **subject** to the following general conditions:

- the machine must be used within the limits stated in the contract and provided in the technical documentation.
- maintenance must be carried out within the time-frames and in the ways required by the manual, using **DINI ARGEO** original spare parts and assigning the operations to qualified personnel.

The warranty is **void** in case of:

- failure to comply with the safety regulations;
- removal of or tampering with control and safety devices;
- improper use of the machine;
- use of the machine by untrained and/or unauthorised personnel or failure to comply with the skills of the various operators, as indicated in the manual;
- modifications or repairs made by the user without the Manufacturer's written authorisation;
- partial or total failure to comply with the instructions;
- lack of maintenance;
- use of non-original spare parts;
- exceptional events such as flooding, fires (if not caused by the machines).

## SAFETY DEVICES

### Noise

---

Noise measurements have been carried out in accordance with the provisions of standards **UNI EN 11200** and **UNI EN ISO 3746**.

During the operating cycles, **under conditions of perfect operation and maintenance**, the noise exposure of personnel is less than 70 dB.

**It is the user's responsibility to apply the resulting preventive and protective measures, in compliance with the legislation of the country where the machine is installed and used.**

### Vibrations

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The vibrations produced by the machine, according to its operating mode, are **not dangerous** to the health of the operators.



#### WARNING

Excessive vibration can only be caused by a mechanical fault that must be immediately reported and eliminated, in order not to compromise the safety of the line and of the operators.

### Residual risks

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The machine has been designed to assure the essential safety requirements for the operator.

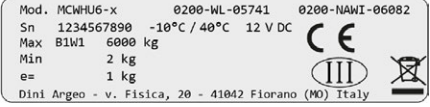



Safety has been integrated into the design and construction of the machine as much as possible; however, risks remain that operators must be protected against.

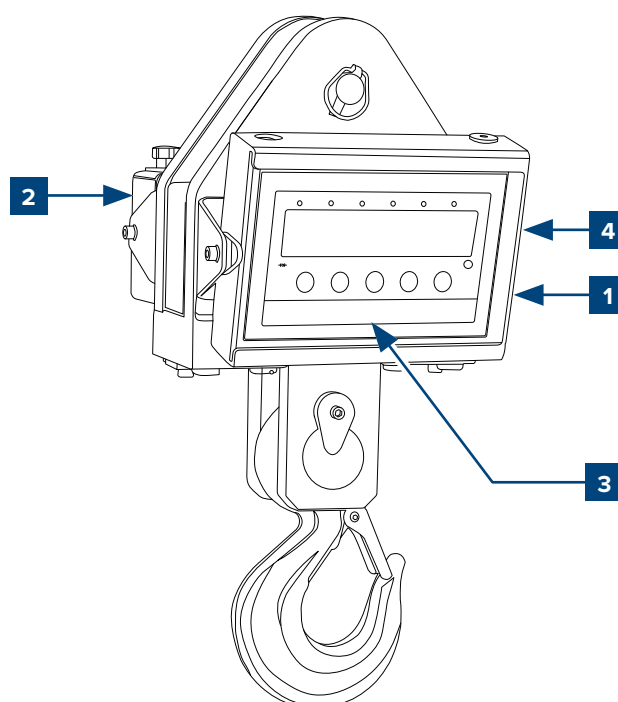
For each residual risk, a description of the risk and of the zone or part of the machine subject to the residual risk is provided (unless it is a risk valid for the entire machine). Procedural information on how to avoid the risk and on the correct use of the personal protection devices provided and required by the Manufacturer is also given.

Risk	Description and procedural information
Risk of crushing	The risk of crushing lower limbs under the load during its descent remains.
Risk of falling load	The risk of the load falling and crushing during lifting operations remains.

## Safety pictograms applied to the machine

Stickers and safety plates are applied to the machine, as shown in the following table. Refer to the image for positioning.

Pos.	Pictogram	Description
1		CE IDENTIFICATION PLATE
2		WARNING DO NOT TRANSIT UNDER THE LOAD
3		MANUFACTURER DATA STICKER
4		CAPACITY STICKER





## DESCRIPTION

### Intended use (correct)

The machine in question is intended for **industrial use** for:

- **weighing objects. It also allows handling.**

Max capacity permitted:

	MODELS	RESPECTIVE CAPACITY
MCWHU	Not approved: MCWHU6 MCWHU10 MCWHU15 MCWHU25	6000 kg (6 t) 10000 kg (10 t) 15000 kg (15 t) 25000 kg (25 t)
	Approved: <b>M</b> MCWHU6M MCWHU10M MCWHU15M	6000 kg (6 t) 10000 kg (10 t) 15000 kg (15 t)

The machine has been designed to:

- meet the specific needs mentioned in the sales contract;
- be used according to the instructions and limits of use provided in this manual.

The machine has been designed and built to operate safely if:

- it is used within the limits stated on the contract and in this manual;
- the user manual procedures are followed;
- scheduled maintenance is carried out in the times and in the ways indicated;
- unscheduled maintenance is promptly carried out if required.

### Reasonably foreseeable misuse

The **reasonably foreseeable misuses**, which are intended as strictly forbidden, are listed below:

- transporting people;
- transporting unstable loads or fluids;
- using the machine in poorly lit areas;
- using the machine without hook and bell;
- using the machine in order to obtain production values above the required limits;
- using the machine differently than described in paragraph “**Intended use (correct)**”.

Any other use of the machine than intended must be previously authorised in writing by the Manufacturer. In the absence of said written authorisation, the use is considered “**improper**”; therefore the Manufacturer declines any responsibility in regards to damage caused to property or people and deems any type of warranty on the machine as void.



#### IMPORTANT

Improper use of the machine relieves the Manufacturer from any responsibility.

## Obligations and prohibitions

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### Operator obligations

The operator **must**:

- Always perform maintenance operations with the machine switched off.
- Operators with long hair must tie it up in order to prevent it from getting caught.
- Use the protective devices made available by the employer in an appropriate manner.
- Immediately report any deficiencies of the safety devices to the employer, the manager or the person in charge.

### Operator prohibitions

Specifically, operators **must not**:

- use the machine improperly, i.e. for uses other than those indicated in the paragraph “**Uso previsto (corretto)**”;
- remove or modify safety or warning devices without authorisation;
- carry out operations or manoeuvres that are not within their competence or that may compromise their own safety or that of other workers of their own initiative;
- wear bracelets, rings or chains that can dangle and be dragged by moving parts, creating a hazard for the operator;
- replace or modify the speed of the components of the machine without being authorised by a manager;
- use the machine if it has not been installed according to the regulations in force;
- use the machine to move loads even if it is not running (otherwise there is the risk of falling and/or damaging the machine);
- use the machine outside of the permitted environmental conditions (consult the paragraph “**Permitted environmental conditions**”).



**WARNING**

DINI ARGEO is not liable for damage to property or people if it is ascertained that the machine has been used in a non-permitted environment.

## Technical data

### MCWHU

Material	STAINLESS STEEL or PAINTED STEEL	
Packaging dimensions	Case: 700 x 650 x 600 mm (length - height - width)	
Weight	without packaging	with packaging
	86 kg	103 kg
Max capacity	<b>MODELS</b>	<b>RESPECTIVE CAPACITY</b>
	Not approved: <b>MCWHU6</b> <b>MCWHU10</b> <b>MCWHU15</b> <b>MCWHU25</b>	6000 kg (6 t) 10000 kg (10 t) 15000 kg (15 t) 25000 kg (25 t)
	Approved: <b>M</b> <b>MCWHU6M</b> <b>MCWHU10M</b> <b>MCWHU15M</b>	6000 kg (6 t) 10000 kg (10 t) 15000 kg (15 t)
Power supply	BATTERY POWERED	
Keypad	5 KEYS	
Radio remote control	Radio frequency remote control and 433MHz receiver, 6-button, for use up to 50 m away	
Operating time	Approx. 60 hours	

## Permitted environmental conditions

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The facility where the machine must be used is an indoor environment protected from weather such as rain, hail, snow, fog, suspended dust, combustible dust and it must not be a classified environment, it must be protected from aggressive agents such as corrosive vapours or excessive heat sources.

The machine has been designed and built to operate safely in the following environmental conditions:

<b>Ambient temperature</b>	-10°C ~ + 40°C
<b>Maximum relative humidity</b>	85 % not condensing
<b>Room lighting</b>	min. 50 lux - non-glare light



### WARNING

Environmental conditions other than those specified may cause serious damage to the machine and void the warranty.



### IMPORTANT

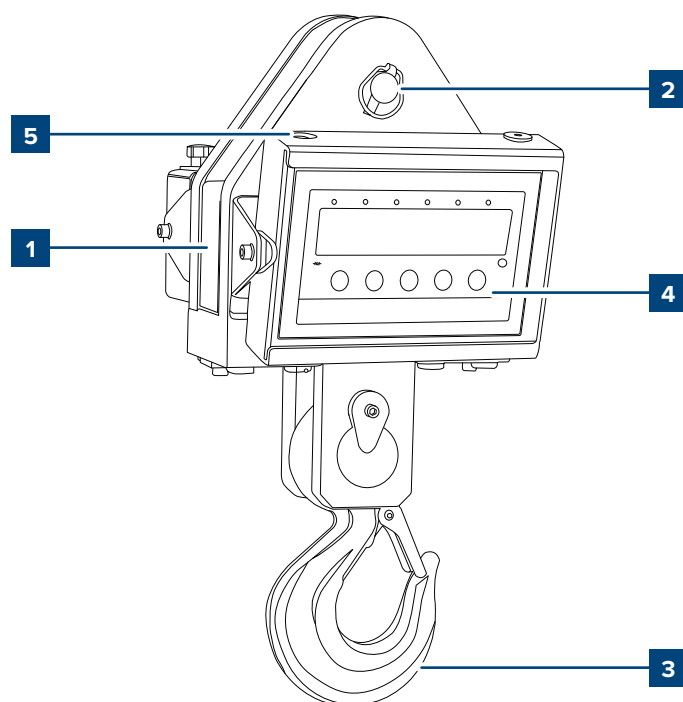
The work surface must be sufficiently illuminated.

In the event of dark areas in the workplace, it is the user's responsibility to provide suitable lighting devices.

## Main components

The machine is made up of the following main components:

Pos.	Component
1	LOAD CELL BODY
2	PIN FOR CONNECTION BELL AND LOAD CELL
3	HOOK FOR THE CONNECTION BETWEEN THE LOAD CELL AND THE LOAD GRIPPING DEVICES
4	ELECTRONIC EQUIPMENT TO CONVERT THE SIGNAL COMING FROM THE TRANSDUCER IN A WEIGHT UNIT, WITH MEASURING DISPLAY AND ADJUSTMENT SYSTEMS
5	HOLE PREPARED FOR ANTENNA OUTPUT (RADIO/WIFI MODULE OPTION)



## Battery

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The suspended crane scale is equipped with a rear battery.  
Battery life is 60 hrs.



The battery can be charged using the 12 V power supply (included) to be connected to the 230 Vac mains. Follow the procedure indicated in the following section for this purpose.



**IMPORTANT**

It is recommended to fully charge the battery after completing the assembly of the instrument.



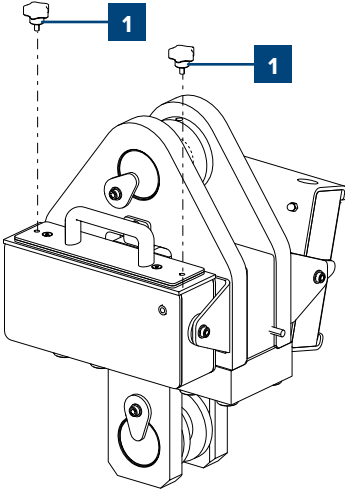
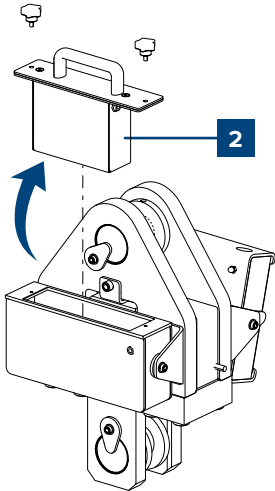
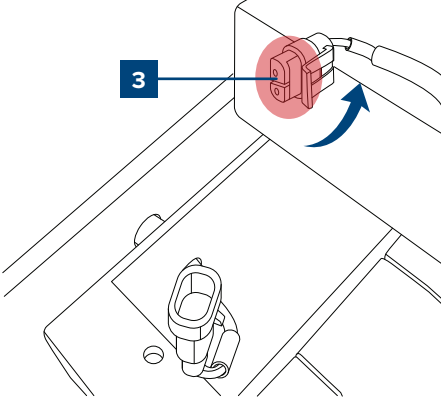
**IMPORTANT**

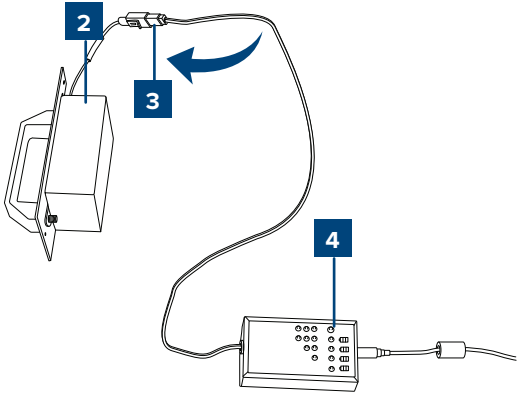
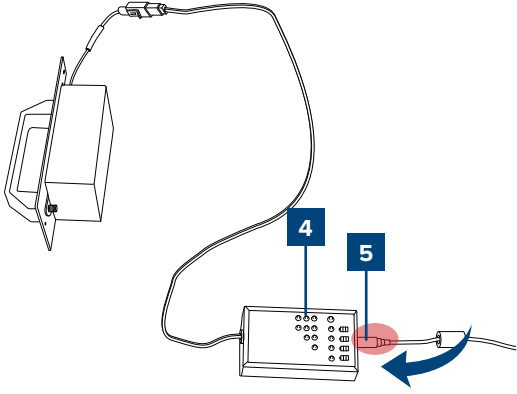
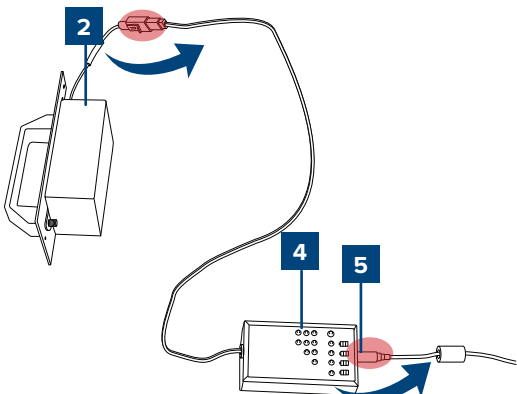
If the suspended crane scale is not used for an extended period of time, it is recommended to disconnect the battery (remove it from the battery compartment) to prevent progressive damage.

## Battery charging procedure

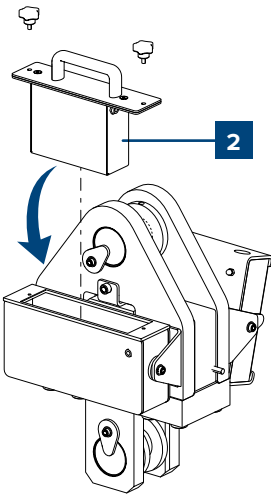
An additional battery is available for continuous use of the suspended crane scale.

To perform the correct procedure, proceed as described below:

Step	Action	Image
1	Undo the two knobs (1) on the back of the suspended crane scale.	
2	Slowly pull out the battery pack (2).	
3	Disconnect the connector (3) from the battery pack.	

Step	Action	Image
4	Connect the battery charger (4) to the battery pack (2) via the appropriate connector (3).	
5	Plug the 12Vdc power supply unit into the 230Vac mains socket and connect it to the battery charger (4) using the connection jack (5).	
6	<p>Upon completion of the charge:</p> <ol style="list-style-type: none"> <li>1. disconnect the charger (4) from the connection jack (5) of the power supply unit.</li> <li>2. disconnect the battery pack (2) from the charger (4).</li> </ol> <p>If you have an additional battery, go directly to step 7.</p>	



Step	Action	Image
7	Connect the battery pack (2) to the suspended crane scale.	

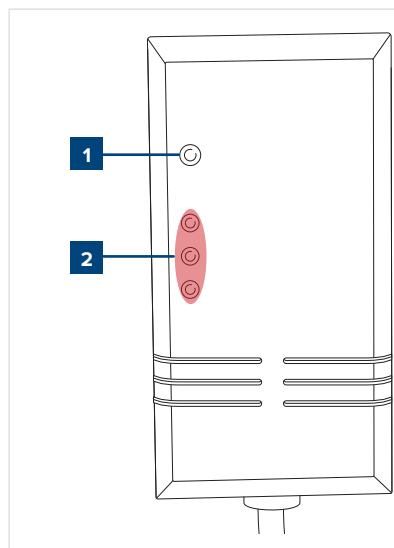
**WARNING**

The battery must be recharged using only the original 12Vdc power supply unit supplied with the suspended crane scale.

**WARNING**

Do not leave the battery near heat sources. Do not heat the battery and do not throw it into the fire. Failure to comply may result in explosion and injury.

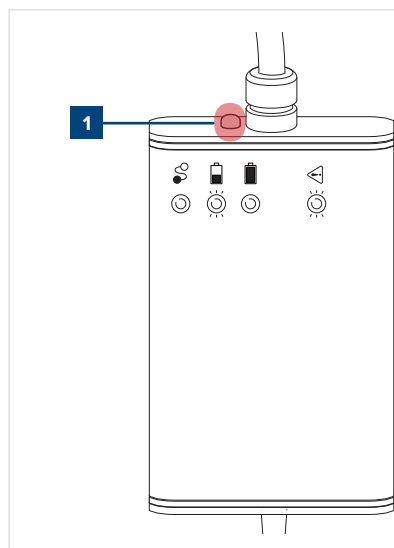
## Battery charger (MCWCB optional kit)



The LEDs of the MCWCB charger are described below:

LED	Description
1	Presence of power voltage.
2	Indication of battery recharge percentage.

## Battery charger (MCWCB-1 optional kit)


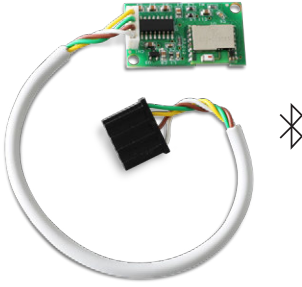






The LED of the MCWCB-1 charger is described below:

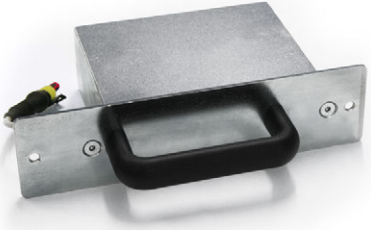

LED	Description
1	Indication of power and battery recharge: Red solid – battery not connected Green blinking – battery charging Green solid – battery charged

## Optional components

The machine can be equipped with the following optional components:

Component	Description and Image
<p><b>HEAT SHIELD</b></p>	<p>Heat shield for protection against high temperatures (max. 80°C). The heat shield prevents the heat underneath the shield, in the form of infrared rays, from rapidly increasing the temperature of the suspended crane scale. The heat shield allows fast passages over powerful infrared radiation heat sources. The residence time or passage time on these sources is a function of the energy of the source itself and the distance the suspended crane scale has from it.</p> 
<p><b>BLUETOOTH</b></p>	<p>Internal Bluetooth interface. For wireless connection of the scale to tablets, smartphones, laptop PCs</p> 
<p><b>WIFI</b></p>	<p>Internal WiFi interface. For wireless connection (via access point) to the company computer system</p> 

Component	Description and Image
<p><b>RADIO MODULE</b></p>	<p>Internal radio interface. For wireless connection to PC or other Dini Argeo instruments (e.g. repeaters)</p>  <p>The image shows a green printed circuit board (PCB) with a small integrated circuit and several surface-mount components. A black antenna is attached to the board via a gold-colored SMA connector. A thin black cable is connected to the antenna. To the right of the antenna, there is a black wireless signal icon consisting of three concentric arcs.</p>
<p><b>ALIBI MEMORY</b></p>	<p>Alibi Memory (fiscal memory, max. 120,000 weighings) for approved weight transmission to PC</p>  <p>The image shows a green PCB with a large, circular, yellow battery mounted on top. The battery is secured with a silver metal tab. On the right side of the board, there are several black integrated circuits and other electronic components. A multi-pin connector is visible on the left edge.</p>
<p><b>DATE AND TIME CARD</b></p>	<p>Calendar clock for printing/displaying the date and time</p>  <p>The image shows a green PCB with a circular yellow battery mounted on top. The battery is secured with a silver metal tab. The board features several black integrated circuits, a small silver capacitor, and other electronic components. A multi-pin connector is visible on the left edge.</p>

Component	Description and Image
REMOVABLE BATTERY	<p data-bbox="480 286 1262 315">Additional removable battery for 24/7 use of the suspended crane scale.</p> 
BELLS AND HOOKS	

# PACKAGING AND HANDLING

## Packaging and handling warnings

---

**WARNING**

DINI ARGEO is not liable for damage, to property or people, caused by accidents due to failure to follow the instructions provided in this manual.

**WARNING**

Use lifting equipment with a capacity suitable for the weight to be lifted.

**IMPORTANT**

Lifting and handling operations must only be carried out by specialised and trained personnel, who are qualified to carry out these activities.

## Packaging

The electronic suspended crane scale is delivered inside a sturdy wooden case designed to protect the instrument from possible shocks or falls during transport. Transport must be carried out taking into account that the specific packaging must not be compressed either from above or from the sides by any external bodies. It is important that the wooden case and the electronic suspended crane scale are stored in enclosed places that respect the environmental conditions.

Upon receiving the instrument, the customer must verify that there is no damage caused by the mode of transport or by the personnel in charge of the specific operations.

**If damage is detected**, leave the instrument in question as is and immediately request the assessment of the damage by the competent shipping company, then report the discovered damage to the competent transport insurance and sales outlet with a damage certificate.

### Packaging handling (wooden crate)



#### WARNING

Take care when handling the wooden crate to avoid shocks or falls that could cause injury to persons and/or damage to the instrument.

If required, carry out the handling procedure with the help of several people or with appropriate means.

Refer to the following table to check the weight of your model.

Weights:

	without packaging	with packaging
All models	86 kg	103 kg



## ASSEMBLY

### Assembly warnings

---



**WARNING**

DINI ARGEO is not liable for damage, to property or people, caused by accidents due to failure to follow the instructions provided in this manual.



**IMPORTANT**

Assembly operations must only be carried out by specialised and trained personnel, who are qualified to carry out these activities.



**WARNING**

Take care when handling the wooden crate to avoid shocks or falls that could cause injury to persons and/or damage to the instrument.

If required, carry out the handling procedure with the help of several people or with appropriate means.



**WARNING**

If the hook and/or bell need to be replaced, contact an Authorised Assistance Centre.

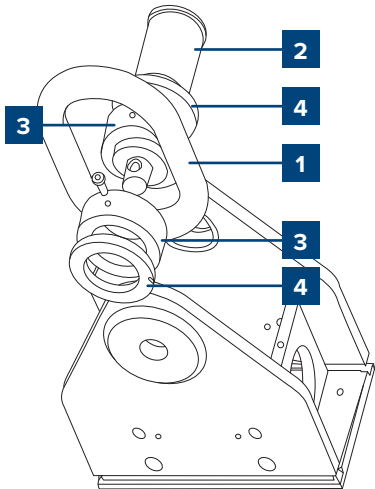
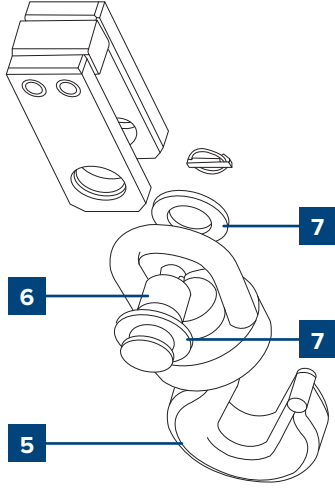


## Assembly procedure

Before starting the installation procedure:

- A. Make sure and check the suitability of the crane hook where the electric suspended crane scale will be installed.

To perform the correct procedure, proceed as described below:

Step	Action	Image
1	Open the case containing the electronic suspended crane scale.	
2	Install a bell (1) inside the upper pin (2): 1. fix the spacers (3) of the upper pin using the corresponding locking screws. 2. finally, position the washers (4) of the upper hook.	
3	Attach the suspended crane scale to the crane, ensuring that the bell rests on the saddle of the crane hook and that the respective lever is positioned securely, and slowly lift the suspended crane scale.	
4	Insert the swivel hook (5) inside the lower pin (6) with its washers (7).	

After completing the correct installation of the components:

- A. Make sure that the nuts of the suspended crane scale are fully screwed on and that the split pins/lock pins are correctly positioned.

# COMMANDS






## Control panel indicators



Pos.	Icon	Description
1	-	6-digit display.
2	-	Radio remote control reception point.
3	→0←	This indicates that the weight measured by the suspended crane scale is close to zero.
4	~	This indicates that the weight is unstable.
5	NET	This indicates that the displayed value is a net weight.
6	kg W1	This indicates the unit of measurement in use and that the device is set to the first weighing range.
7	kg W2	This indicates the unit of measurement in use and that the device is set to the second weighing range.
8	FUN.	This indicates that a specific indicator function is active.

## Control panel keys



Key	Description
	<ul style="list-style-type: none"> <li>Resets the weight value on the scale.</li> <li>In number entry mode, it decrements the digit to be changed.</li> <li>If pressed for a long time (2 sec), it allows you to set the brightness of the display.</li> </ul>
	<ul style="list-style-type: none"> <li>Performs tare on the scale.</li> <li>In number entry mode, it increments the digit to be changed.</li> <li>If pressed for a long time (2 sec) it allows you to insert a preset tare.</li> </ul>
	<ul style="list-style-type: none"> <li>Recalls the function specific to the operating mode.</li> <li>In number entry mode, it selects the digit to be edited.</li> <li>If pressed for a long time (5 sec) it allows you to change the operating mode.</li> </ul>
	<ul style="list-style-type: none"> <li>Print the receipt.</li> <li>In number entry mode, it confirms that the input has been executed.</li> <li>If pressed for a long time (5 sec) it allows you to enter the configuration menu.</li> </ul>
	<ul style="list-style-type: none"> <li>If pressed for 2 seconds, it turns the instrument off/on.</li> <li>In number entry mode, it resets the digit entered.</li> <li>If pressed for 5 sec it shows the metrological information.</li> </ul>



### WARNING

For a clearer view and advanced functions related to the keys and operating modes, see chapter “BASIC SCALE FUNCTIONS” and “ADVANCED FUNCTIONS OF THE SCALE”.

## Remote control

The remote control reproduces the functions of the ZERO, TARE, MODE, PRINT, C, Fn display or just the TARE button, according to on the set operating mode.

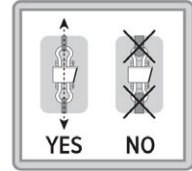
The keys on the remote control repeat the functions of the panel keys for both short and long presses.



Key	Description
TARE	<ul style="list-style-type: none"><li>Tare key or increase of the digit when entering a value.</li></ul>
ZERO	<ul style="list-style-type: none"><li>Zero key or decrease of the digit when entering a value.</li></ul>
MODE	<ul style="list-style-type: none"><li>Mode key or move cursor to the right while entering a value.</li></ul>
PRINT	<ul style="list-style-type: none"><li>Print or confirm key.</li></ul>
C	<ul style="list-style-type: none"><li>C key or stand-by function if held down.</li></ul>
Fn	<ul style="list-style-type: none"><li>If pressed for a long time, it allows you to set the brightness of the display.</li></ul>

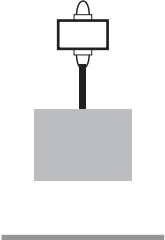
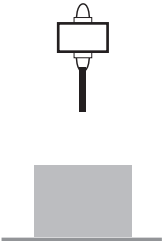
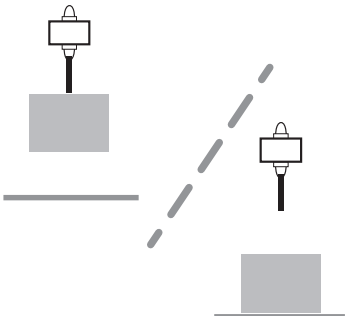
# USE

## General warnings for correct use



**!** **IMPORTANT**  
 Refer to the "Suspended crane scale safety and maintenance manual" for safety warnings.

## Suspended crane scale conditions

Condition	Description
 <p>The diagram shows a crane scale assembly consisting of a hook, a vertical stem, and a rectangular scale body. The scale body is positioned above a horizontal line representing the ground. A grey rectangular load is suspended from the stem, positioned above the ground line.</p>	<p>The suspended crane scale is on and the load is in position raised from the ground.</p>
 <p>The diagram shows the same crane scale assembly as in the first row. The scale body is positioned above the ground line. The grey rectangular load is now resting on the ground line, directly below the scale body.</p>	<p>The suspended crane scale is on and unloading.</p>
 <p>The diagram shows two crane scale assemblies. On the left, the scale body is above the ground line and the grey load is resting on the ground line. On the right, the scale body is above the ground line and the grey load is suspended above the ground line. A dashed diagonal line separates the two scenarios.</p>	<p>In this condition it does not matter whether the suspended crane scale is loading or unloading.</p>

## Checks before use

Before using the suspended crane scale, check that:

- the instrument is complete with all its parts and does not present obvious damage;
- the area of use is clear of any obstacles;
- there are no losses of consumables in the area under the machine;
- the labels installed on the suspended crane scale are in place and legible;
- check the condition of the shackle/hook and/or bell;
- check the status of the crane;
- check nuts and split pins.

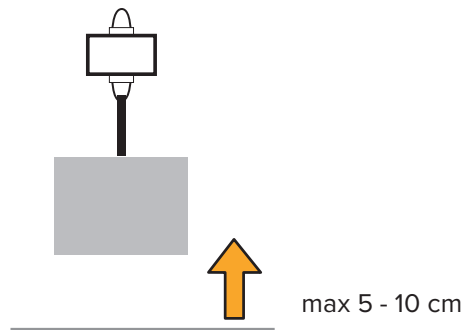


### IMPORTANT

If faults and/or anomalies are detected, report them to the personnel in charge.

## Load lifting and weight reading

- A. Turn on the suspended crane scale and wait for the display to reset.
- B. Lift the load, as shown in the figure below.
- C. The weighing value can be read on the display.



Weighing accuracy is achieved when the suspended crane scale is fully stationary.

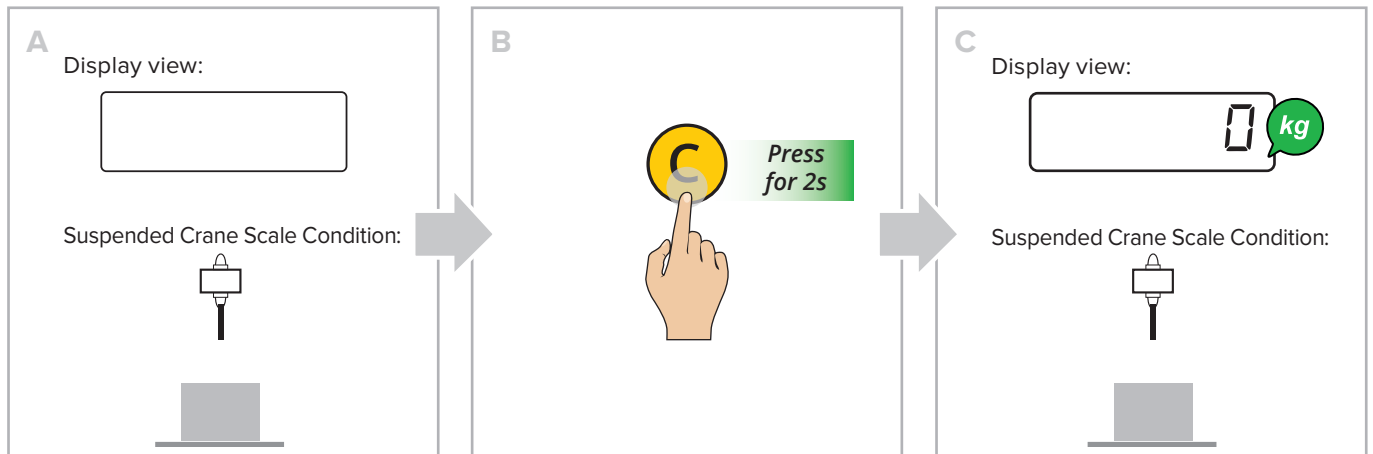


### WARNING

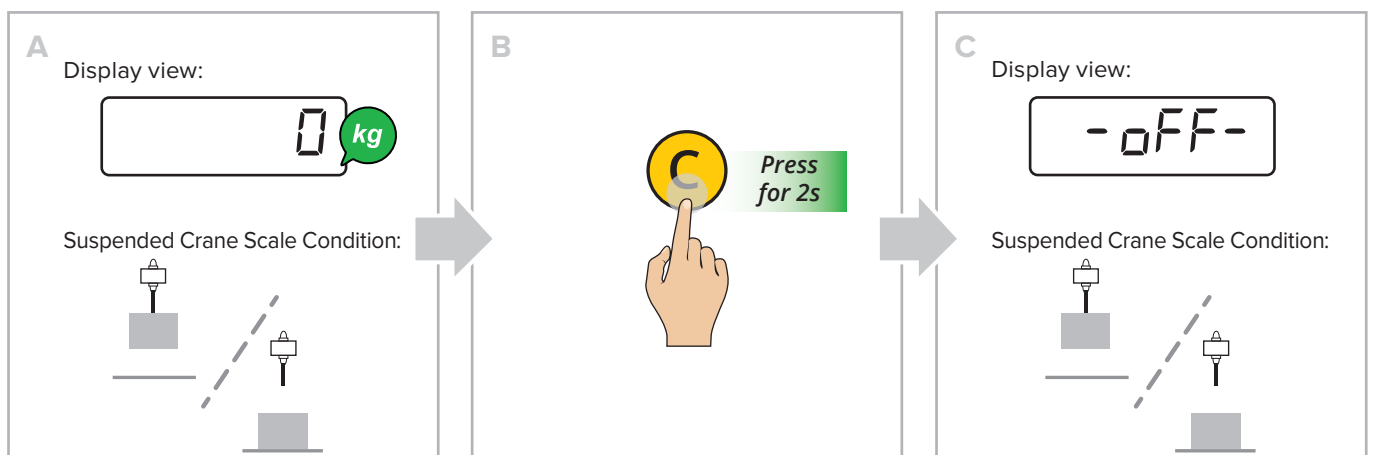
Make sure the load is fully raised from the ground.

# BASIC SCALE FUNCTIONS

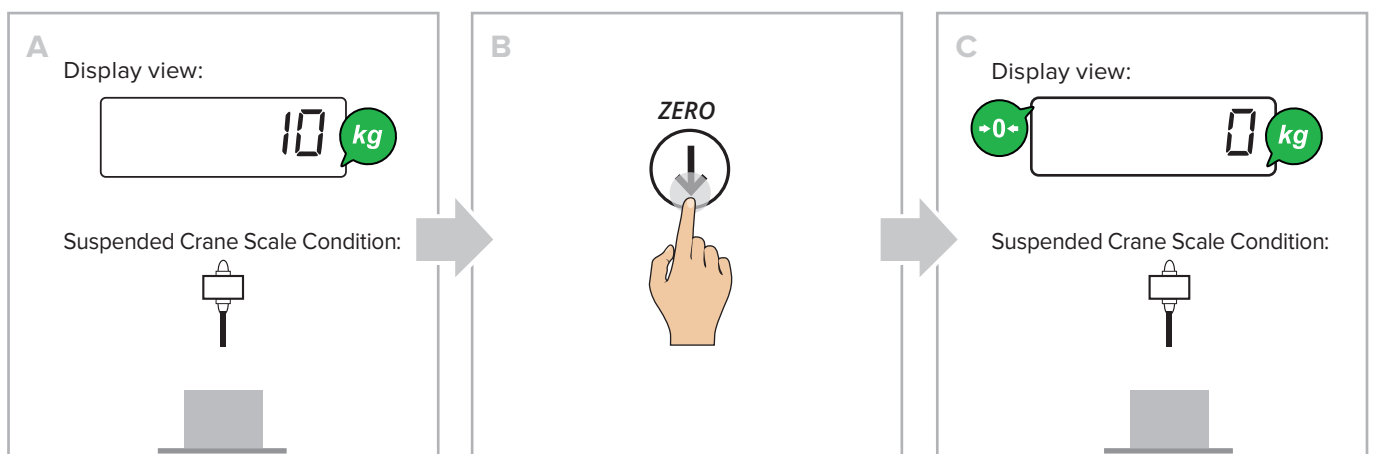
## Switching on



## Switching off

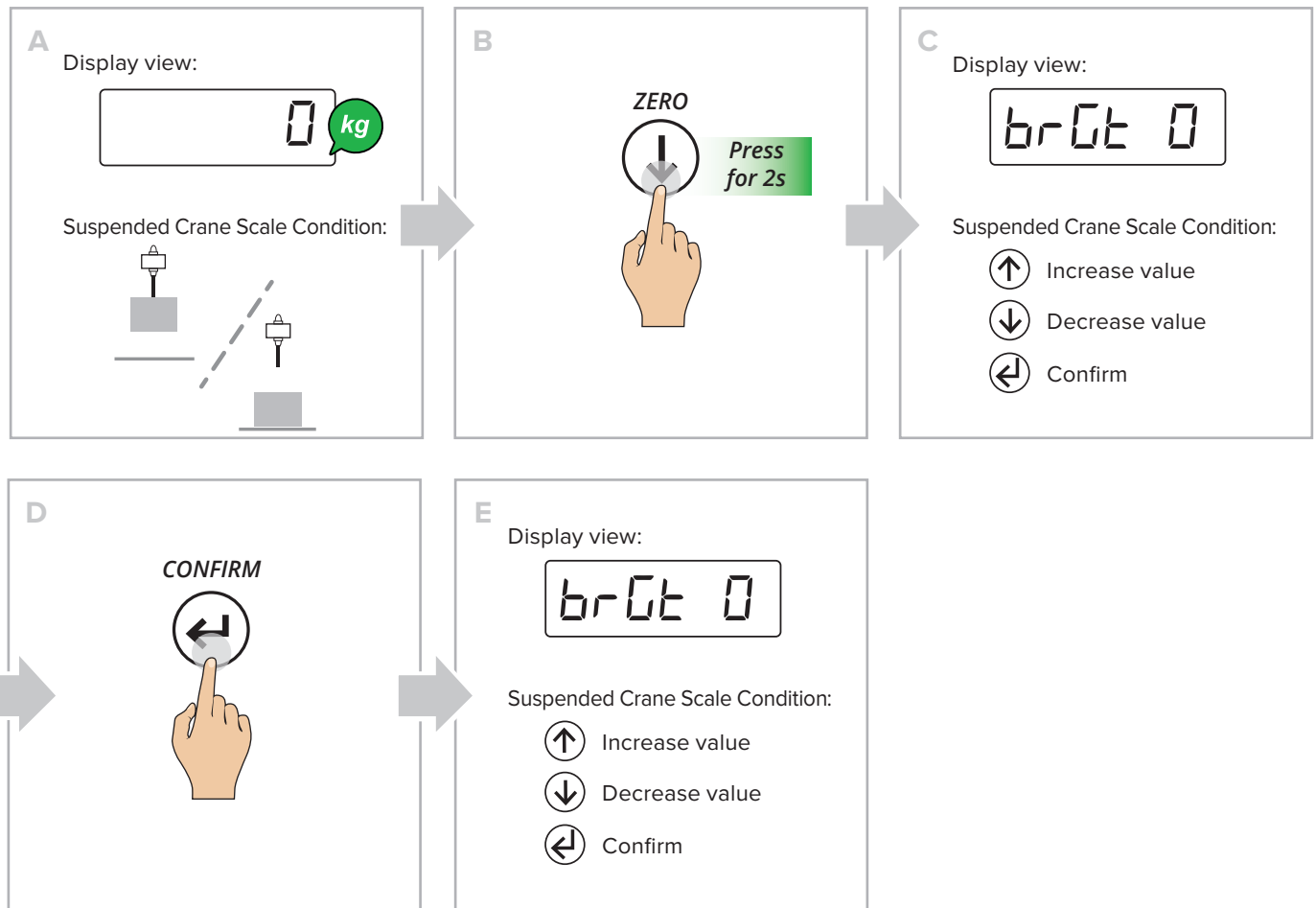


## Zero

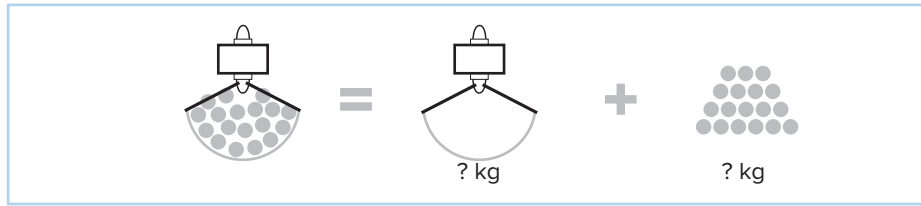





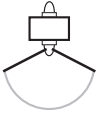
## Adjusting the display brightness



## Automatic tare





**A** Display view:  
 150 kg

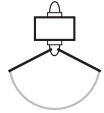
Suspended Crane Scale Condition:  



**B**

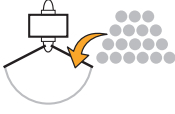
TARE




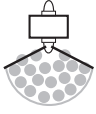
**C** Display view:  
 NET 0 kg LT

Suspended Crane Scale Condition:  


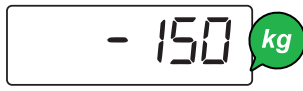
**D** Display view:  
 0 kg


Suspended Crane Scale Condition:  


**E** Display view:  
 1200 kg

Suspended Crane Scale Condition:  



## Clearing the tare


**A** Display view:  
 -150 kg

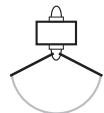
Suspended Crane Scale Condition:  


**B**

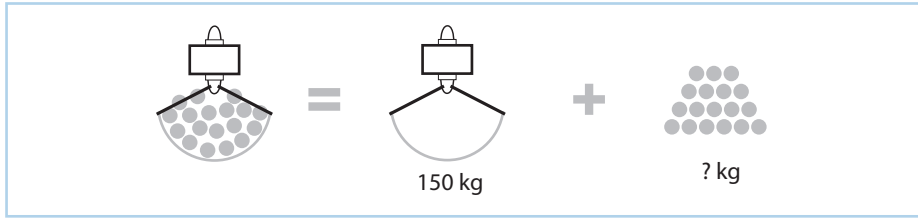
TARE



**C** Display view:  
 G 0 kg

Suspended Crane Scale Condition:  


## Setting a known tare value (PT)



**A** Display view:

Suspended Crane Scale Condition:

**B**

TARE

Press for 2s

**C** Display view:

Setting the tare value:

Increase / decrease the value

**D**

CONFIRM

**E** Display view:

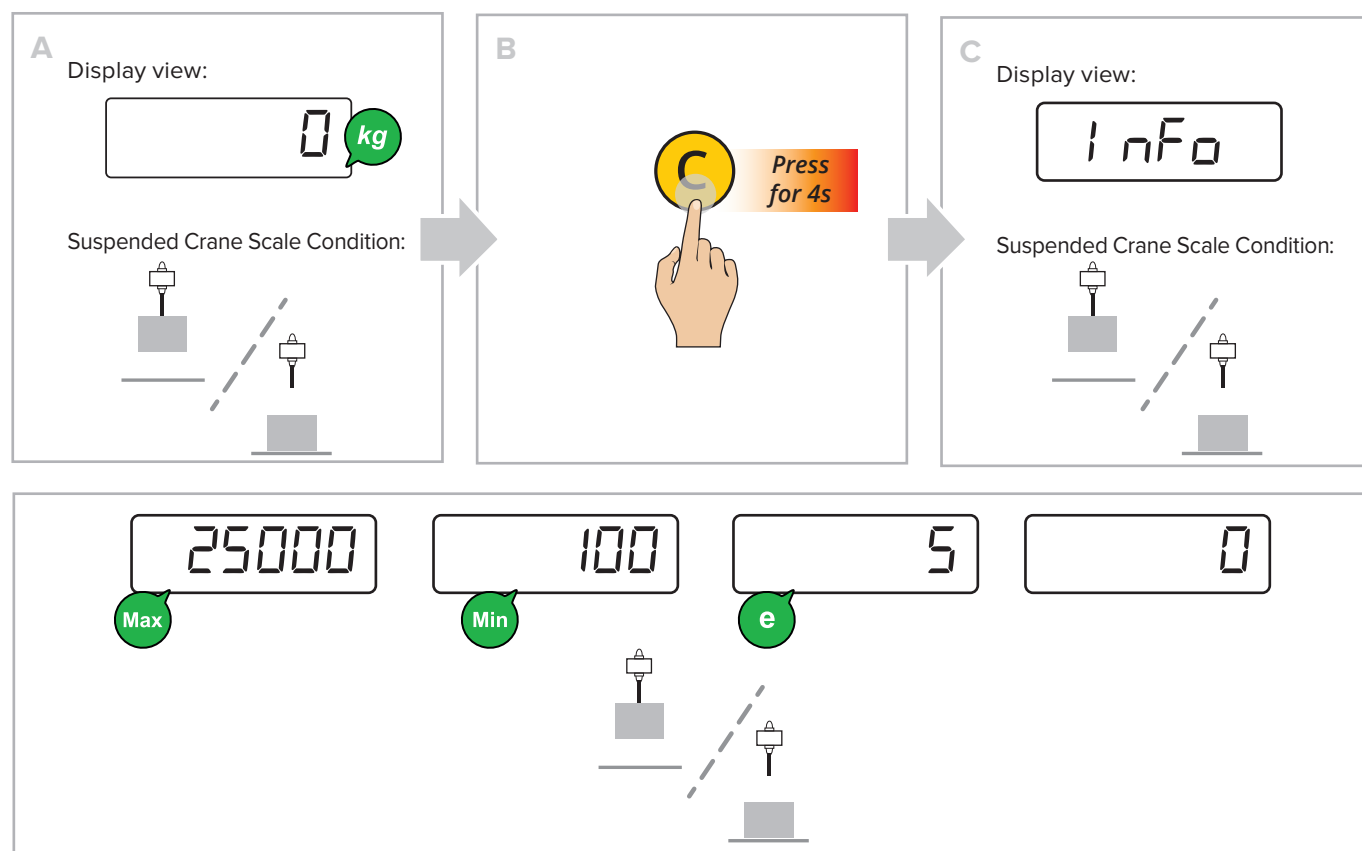
Suspended Crane Scale Condition:

**F** Display view:

Suspended Crane Scale Condition:

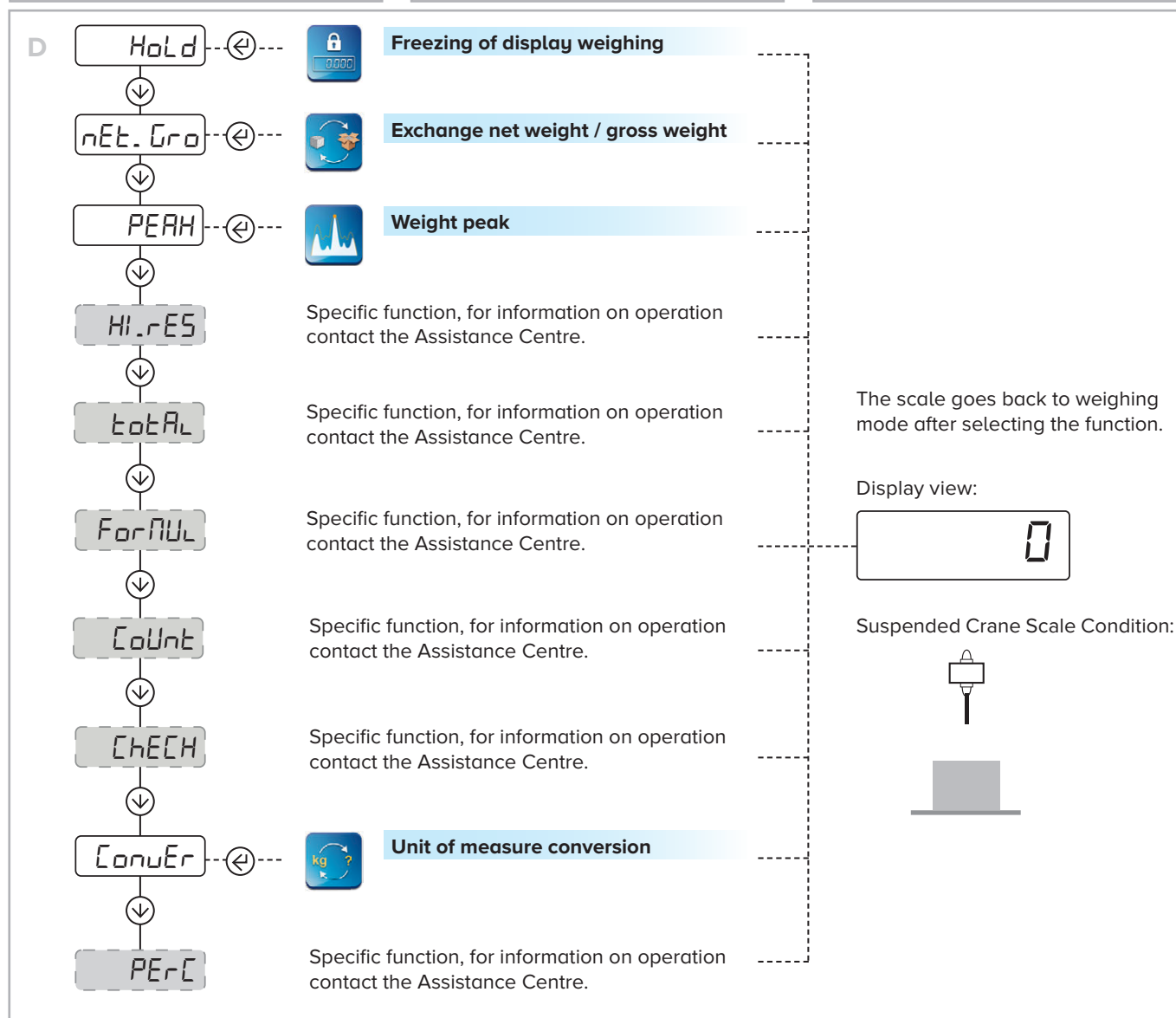
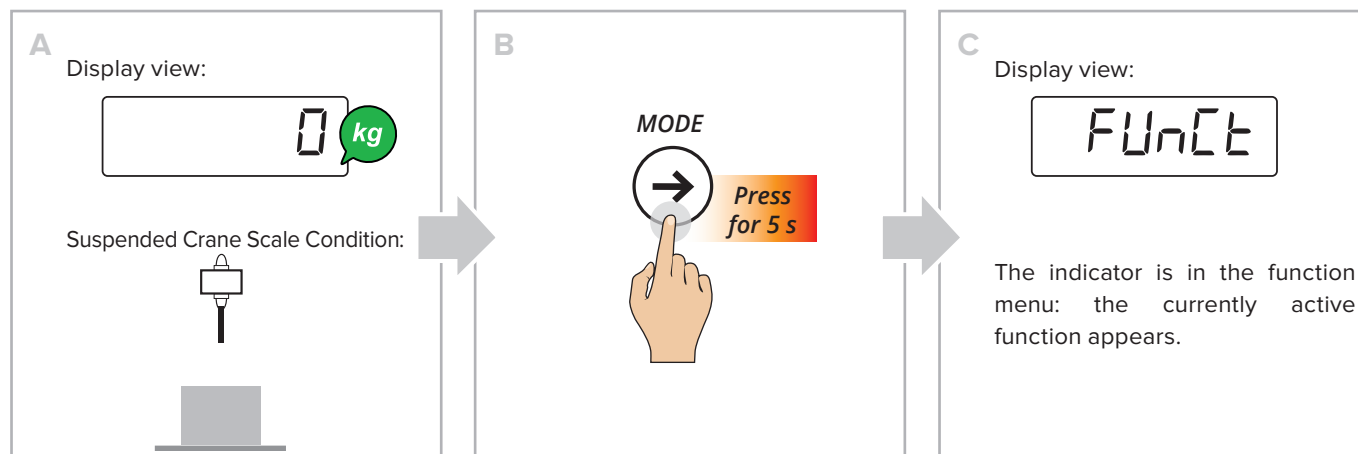


## Metric information

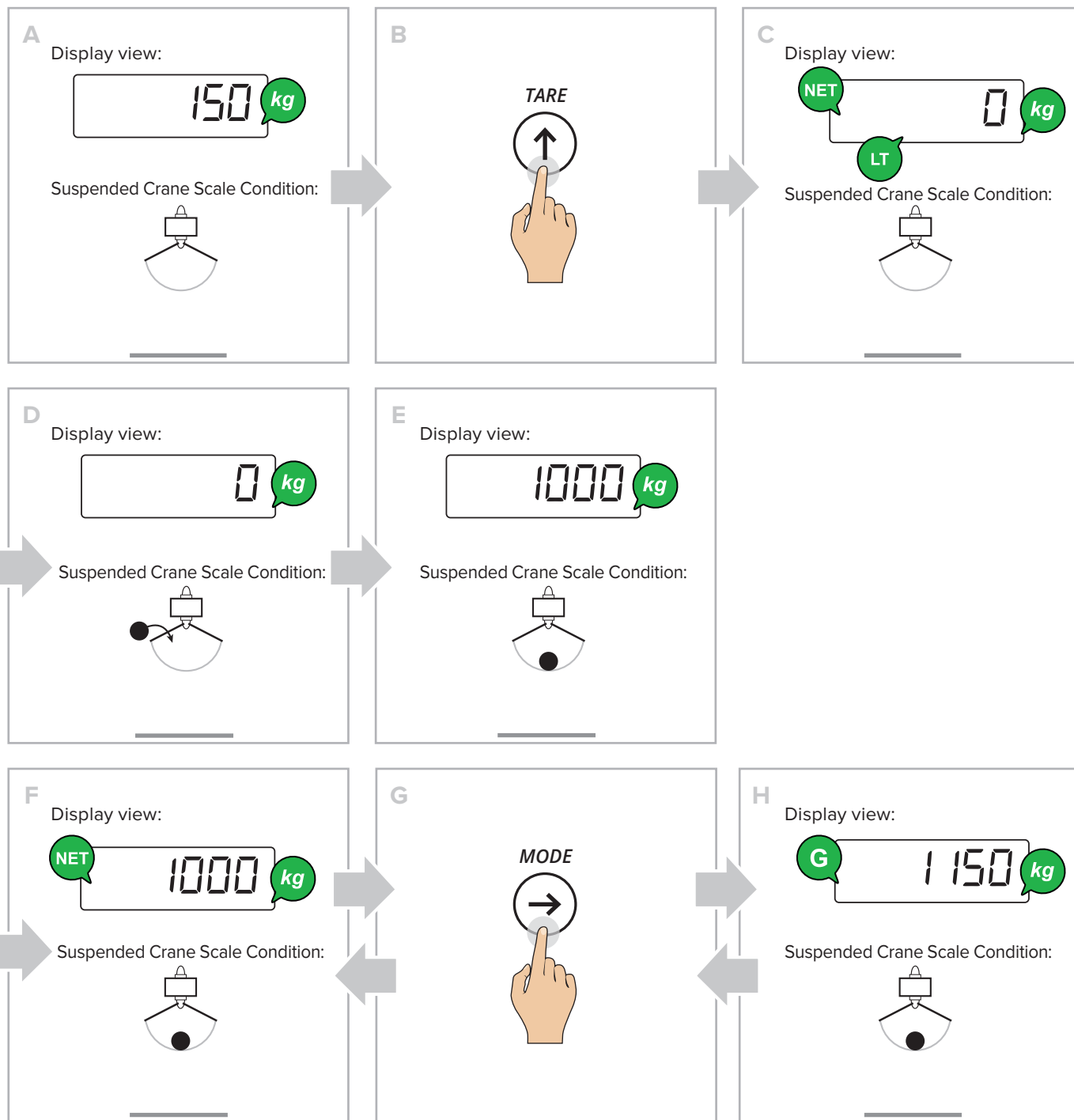


# ADVANCED FUNCTIONS OF THE SCALE

## How to enter the functions menu



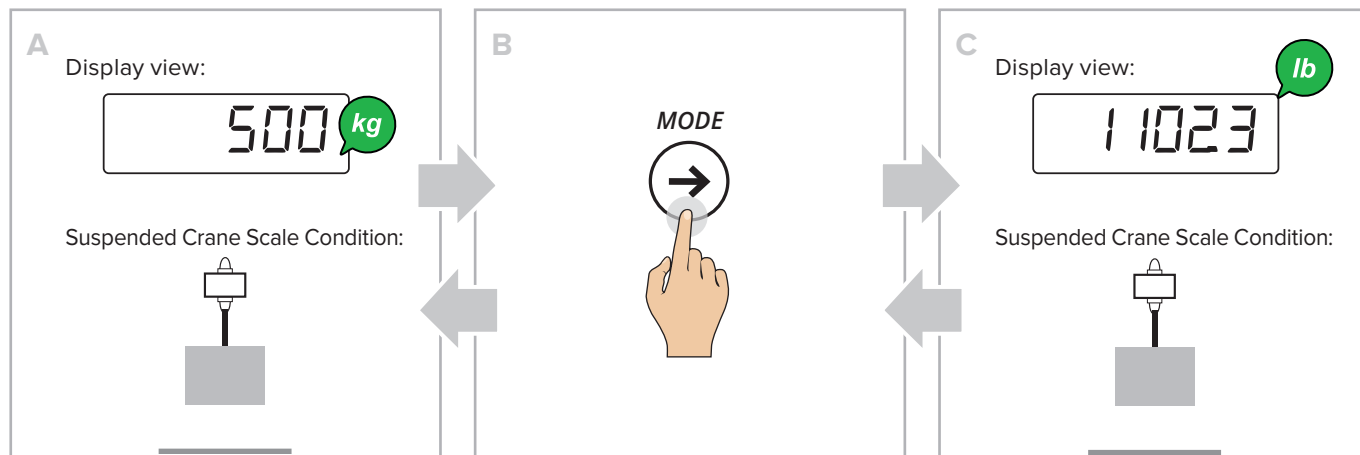
## Exchange between net weight and gross weight



By pressing <sup>MODE</sup> → at any time, you can change from net to gross weight.

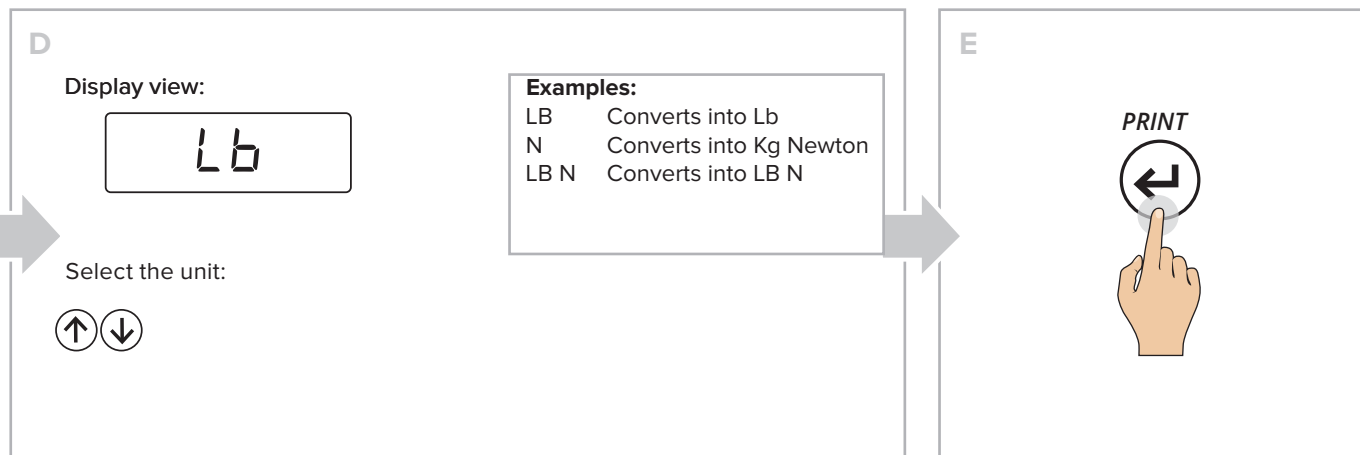
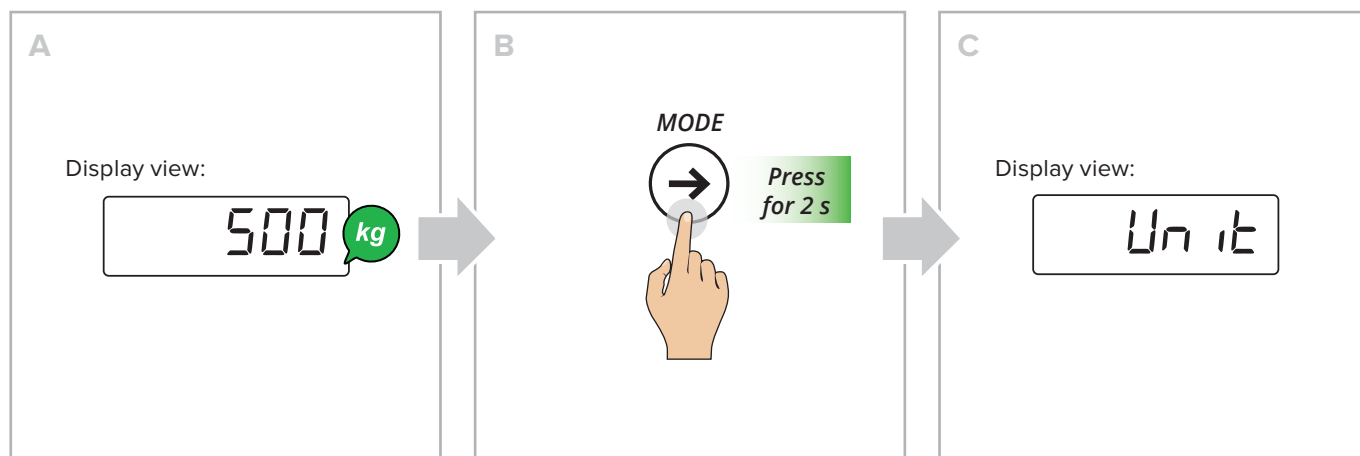
## Unit of measure conversion

### HOW TO CONVERT THE UNIT OF MEASUREMENT TO POUNDS (STANDARD MODE)



By pressing  at any time you can switch from weight in kg to weight in pounds.

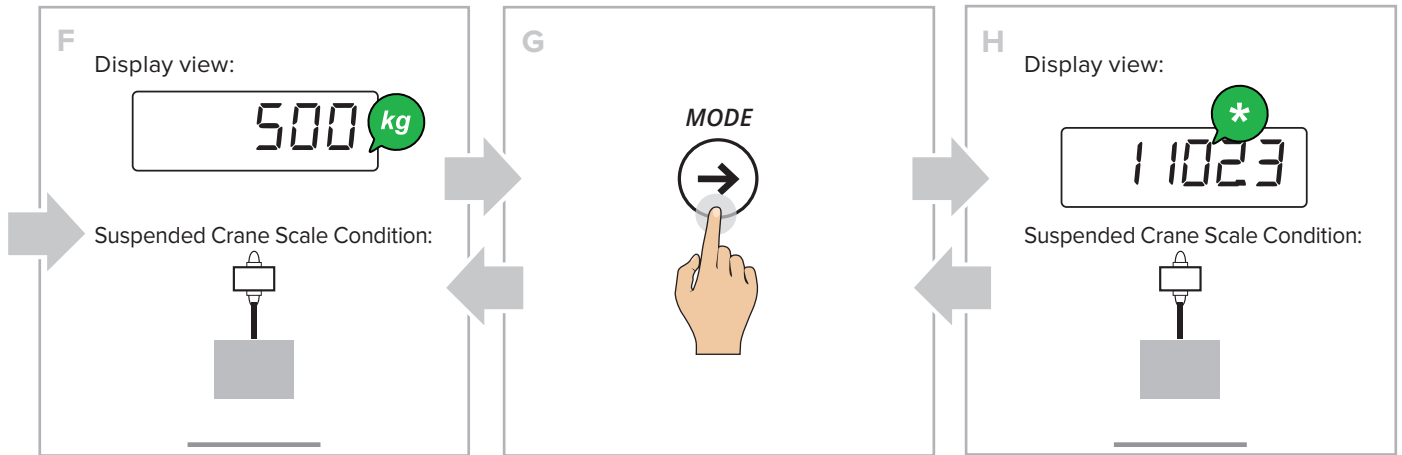
### HOW TO CONVERT THE UNIT OF MEASUREMENT WITH FREE CONVERSION FACTOR




**Examples:**  
 LB Converts into Lb  
 N Converts into Kg Newton  
 LB N Converts into LB N

proceed →

## Advanced functions of the scale

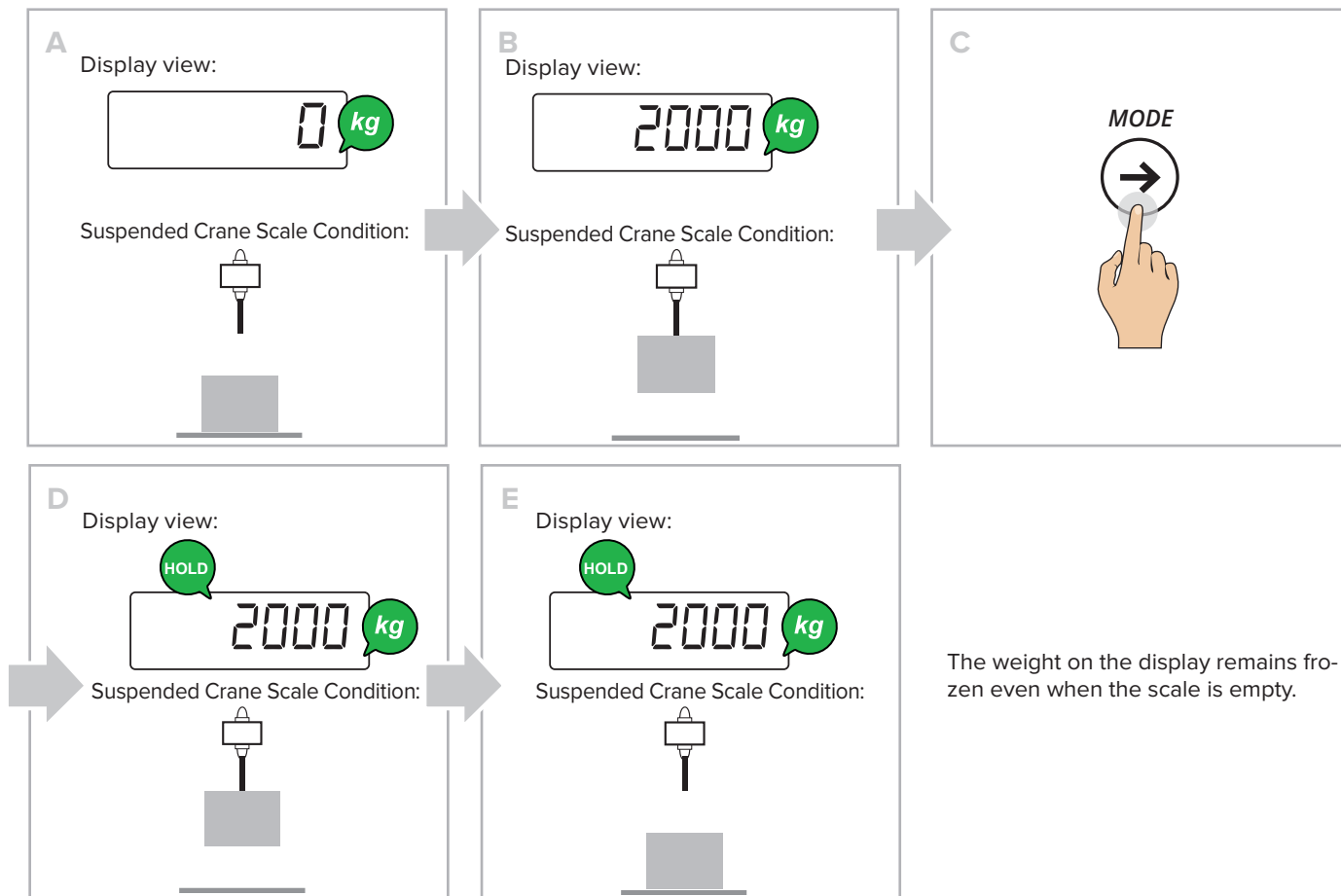


**i** By pressing  at any time, the unit of measurement can be converted with a free conversion factor.

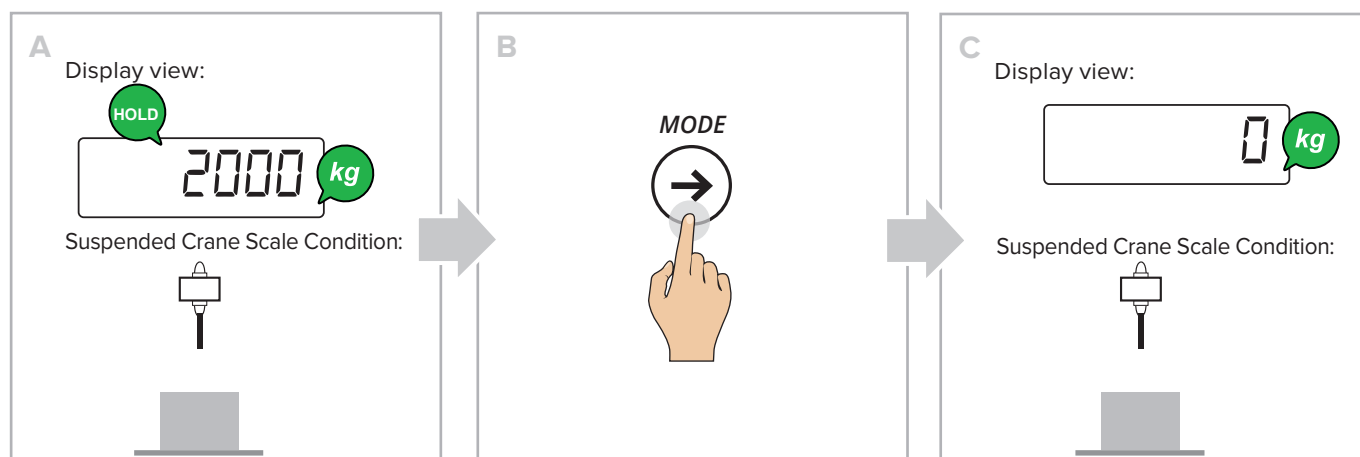


## Freezing of display weighing

### HOW TO ENABLE THE FUNCTION

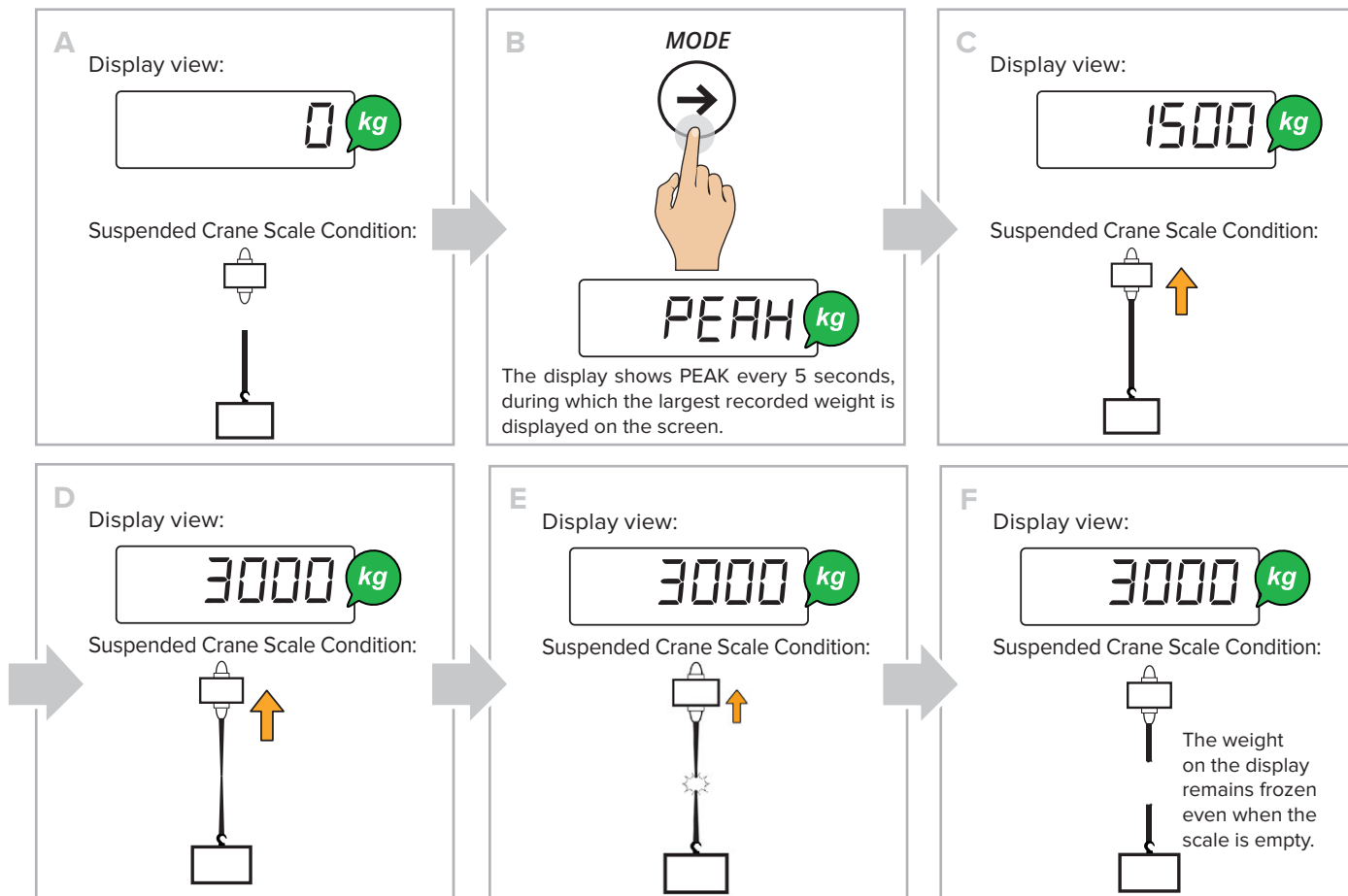


### HOW TO DISABLE THE FUNCTION

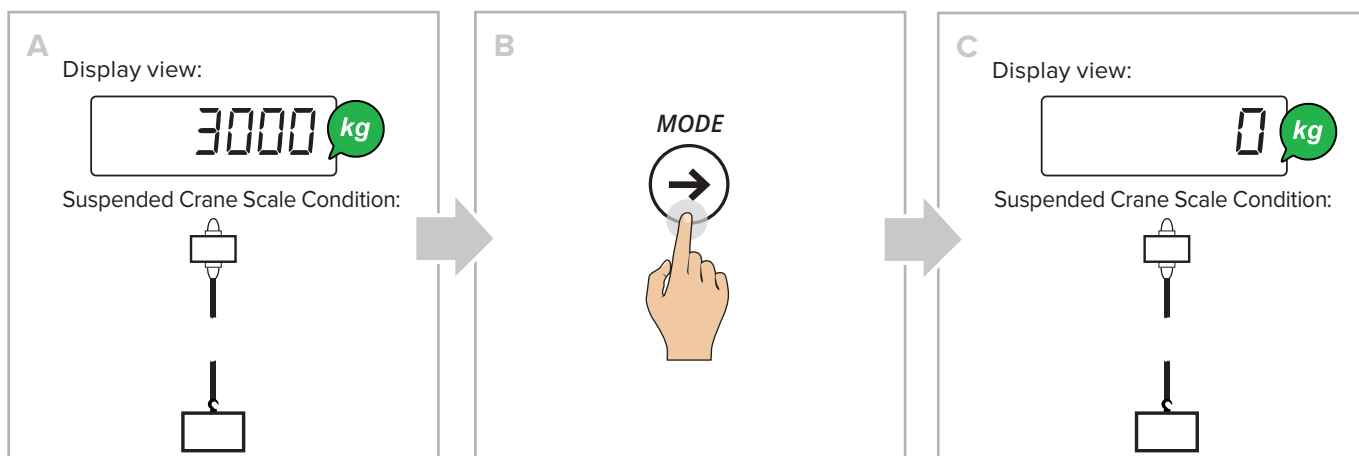


## Weight peak

### HOW TO ENABLE THE FUNCTION

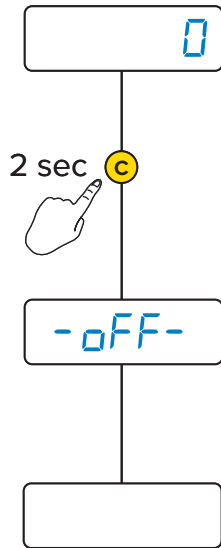


### HOW TO DISABLE THE FUNCTION

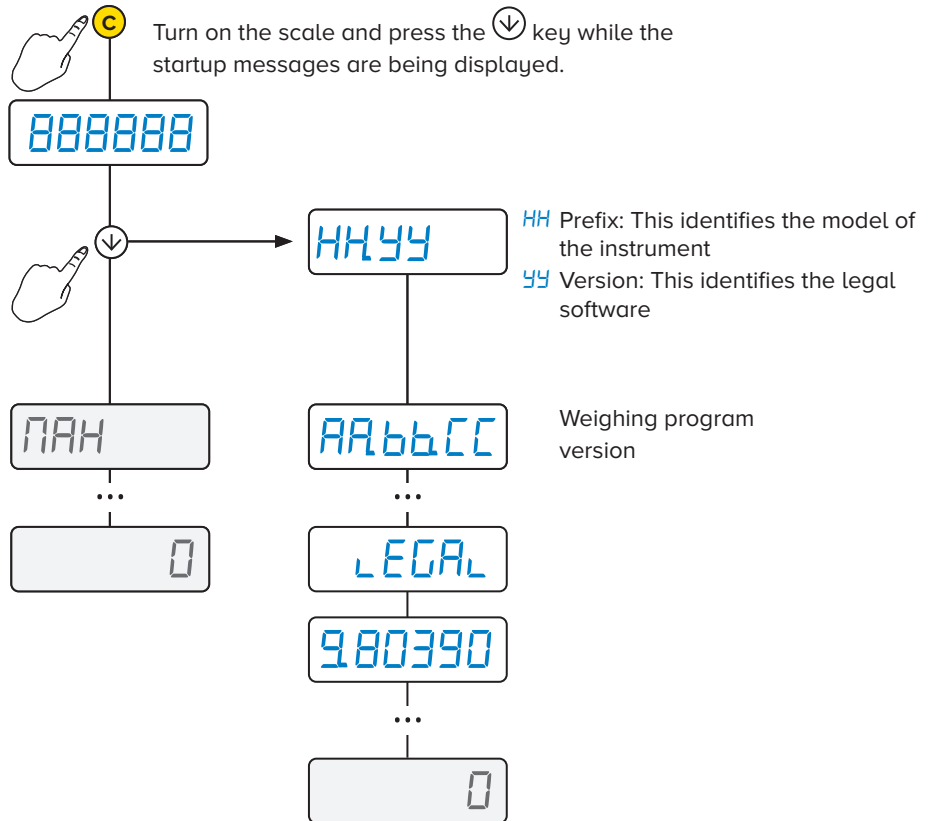


## METROLOGICAL SCALE INFORMATION

### 1. Turn off the scale



### 2. Follow the procedure:



## MAINTENANCE



### IMPORTANT

Refer to the "SUSPENDED CRANE SCALE SAFETY AND MAINTENANCE MANUAL" attached for maintenance operations.

## TROUBLESHOOTING CASES

TARE	<b>The scale does not set the tare</b>	<ul style="list-style-type: none"> <li>• The weight is unstable (UnStAb)</li> <li>• The gross weight is negative (L.O.L!)</li> <li>• The weight is not sufficient</li> <li>• The weight exceeds the maximum capacity</li> <li>• The tare function has been deactivated</li> <li>• In case of manual tare, the value exceeds the maximum capacity</li> </ul>
WEIGHING	<b>The scale does not turn on</b>	<ul style="list-style-type: none"> <li>• Check the correct connection of the battery.</li> <li>• Replace the batteries and try again. If the instrument is still malfunctioning, contact your dealer.</li> </ul>
	<b>The scale suddenly switches off</b>	<ul style="list-style-type: none"> <li>• Auto power off active</li> <li>• Low battery</li> <li>• Power line failure</li> </ul>
	<b>The scale is not reactive</b>	<ul style="list-style-type: none"> <li>• One of the available energy saving modes has been activated</li> <li>• An unsuitable weighing filter has been selected</li> </ul>
	<b>The display of the scale turns off and shows a dot</b>	<ul style="list-style-type: none"> <li>• Standby mode is active: press a key to reactivate weighing.</li> <li>• Energy saving is active, contact your dealer for more details.</li> </ul>
	<b>The scale displays the message "Zero" permanently</b>	<ul style="list-style-type: none"> <li>• The scale cannot automatically zero the weight because the weight exceeds the maximum weight that can be zeroed at power-up.</li> <li>• Release the hook and try again. If the scale continues to have the same problem even when the hook is unloaded, contact the dealer.</li> </ul>
	<b>The weight is unstable</b>	<ul style="list-style-type: none"> <li>• Check whether the weighing filter is enabled.</li> <li>• If the system is subjected to vibrations from machinery or moving vehicles, move the scale onto another surface and try again.</li> </ul>

## Error messages

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MESSAGE	DESCRIPTION	SOLUTION
<i>UnStAb</i>	The weight is unstable	Check the weighing filter. If the supporting surface is affected by vibration from moving machinery or equipment, move the scale to another surface and try again.
<i>LoW</i>	The net or gross weight is negative or insufficient for printing	Add weight and try again.
<i>UndEr</i>	Underload	Load the scale and restore a valid weight condition. If the problem persists, contact customer service.
<i>ouEr</i>	Overload	Unload the scale and restore a valid weight condition. If the problem persists contact service.
<i>no. 0. UnS</i>	The scale was not unloaded after the last printing	Completely unload the scale, making sure the warning light <b>•0•</b> comes on. Reload the weight and try again.
<i>Err. Not</i>	The weight is unstable	Wait for stability (the $\sim$ indicator appears) and try again.
<i>Error</i>	In counting mode the weight is not sufficient for proper sampling.	Increase the number of pieces and try again.















**HEAD OFFICE**

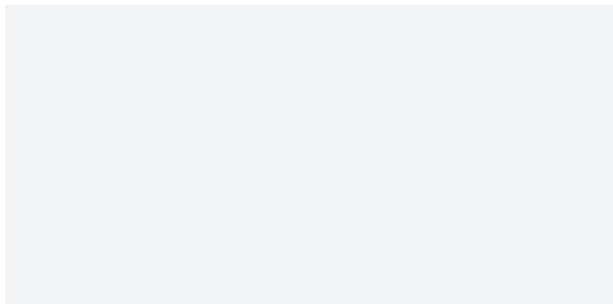
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**SERVICE ASSISTANCE**

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Authorised service centre stamp



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