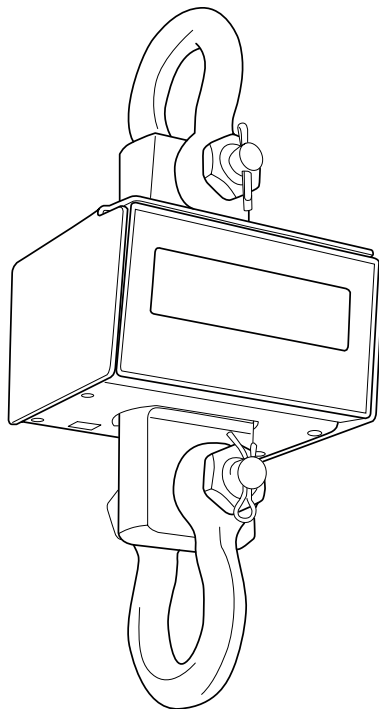


MCWN

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 carrying out any handling operations or lifting any loads.
- 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.
- To achieve a correct weighing result, the load must be raised by at least 5-10 cm from the ground (Paragraph “Load lifting and weight reading” ref.).
- 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 aforementioned description of the weight indicator.
- To clean the suspended crane scale, avoid the use of solvents or aggressive substances.
- It is forbidden to make any modifications to the structural work 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 specifically described in this manual is considered improper use of the equipment.

i



- The crossed out wheelie bin symbol on the product shows that it must be brought to appropriate separate waste collection centres at the end of its life cycle or returned to the dealer when purchasing a new equivalent product.
- Proper separate collection to send the product on to recycling helps prevent possible negative effects on the environment and to health, and promotes the recycling of the materials. Users who dispose of the product illegally shall face administrative sanctions as provided for by law.

IDENTIFICATION

Identification of the Manufacturer

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

Machine identification

Machine **DIGITAL SUSPENDED CRANE SCALE**
Model **MCWNXX**

Identification plate

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 on: www.diniargeo.com



EU DECLARATION OF CONFORMITY

EU-KONFORMITÄTSEKTLÄRUNG, DÉCLARATION UE DE CONFORMITÉ, DECLARACIÓN DE CONFORMIDAD, DICHIARAZIONE DI CONFORMITÀ UE, DECLARAÇÃO UE DE CONFORMIDADE, DECLARAȚIA UE DE CONFORMITATE, IZJAVA O SKLADNOSTI, ES ATITIKTIES DEKLARACIJA, ES VYHLÁSENIE O ZHODE

- 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 la présente déclaration, sont conformes à la/aux norme/s suivante/s ou au/aux document/s normatif/s suivants.
- 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.
- 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.
- Portugues** Declaramos sob nossa exclusiva responsabilidade que os produtos que se referem a esta declaração, são conformes ao seguinte padrão eo documento de regulamentação.
- Romana** Declaram pe propria răspundere 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 nanaša ta izjava o skladnosti, skladni s sledečim/imi standardom/i ali normativom/i dokumentom/i.
- Lietuvių** esame visiškai atsakingi už tai, kad produktai, kuriems šioje deklaracijoje, atitinka šiuos standartus ar kitus reglamentavimo dokumentus.
- Slovak** Na svoju vlastnú zodpovednosťhlasujeme, že výrobky na ktoré sa toto vyhlásenie vzťahuje sú v súlade s nasledujúcim/i štandardom/mi alebo inými normami.

Fabricante/Manufacturer/Fabricant/Hersteller/Proizvajalec/Construitoras:	DINI AR GEO S.r.l. Via della Fisica,20 Fiorano Modenese (MO) Italy
Tipo/Type/Typ/Vrsta/Tipas/Typ:	DFWL
Numero di serie/Serial number/Numéro di série/Serijski broj/Številka/ Serijinis numeris/Sériové číslo:	0100746560
N° CE del Tipo/ EC type Examination certificate number/CE de type/CE de type/Baumusterprüfbescheinigung/ EC Certifikat o tipskem pregledu/EB tipo/Tipinis sertifikatas/ES certifikát typu:	NMO-0126 / UK 2931
Certificato di prova / Parts (Test) Certificate / Certificat (d'essai) de partie / Teilgutachten (Prüfschein)/ Testni certifikat/Bandymų sertifikatas/Atestacija:	GB-1461

EU Directive	Standard
2014/30/EU EMC	EN 61000-6-2:2005, EN 61000-6-4: 2007+A1:2011, EN 61326-1 : 2013, EN55011:2009+A1:2010
2014/35/EU LVD	EN 61010-1 : 2010
2006/42/EU	UNI EN 13155 / 2009 ; UNI EN 13889 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 des Herstellers 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./Oseba, pooblaščena za sestavljanje tehnične dokumentacije v prostorih proizvajalca, je tehnični direktor./Asmuo, įgaliotas sudaryti techninę bylą gamintojo patalpose, yra technikos tvarkytojas./ Autorizovaná osoba, ktorá má oprávnenie spravovať technickú dokumentáciu výrobcu je technický manažment.

Signature
Marco Bertoni
President

Fiorano Modenese (MO) Italy, 23/01/2019

Reference directives

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**

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 61010-1 : 2010**
- **UNI EN 13155 / 2009**
- **UNI EN 13889**

Documentation supplied

- **EU Declaration of Conformity** available on the diniargeo.com site in the documents area
- **Testing certificate** available on the diniargeo.com site in the documents area
- **User manual** available on the diniargeo.com site in the product **DOWNLOAD** area
- **Safety and maintenance manual** supplied with the suspended crane scale

PRELIMINARY INFORMATION

Recipients

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

The manual is available in electronic **format** on: 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

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, scheduled maintenance), refer to the following table:

Qualification	Description
OPERATOR	<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>Note: they are not authorised to carry out any maintenance operation.</p>
MECHANICAL MAINTENANCE TECHNICIAN	<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>Note: they are not authorised to operate on live electrical systems (if any).</p>
MANUFACTURER'S TECHNICIAN	<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
	Obligation to use safety or insulating gloves. Indicates a requirement for personnel to use safety or insulating gloves.
	Obligation to use safety goggles. Indicates a requirement for personnel to use safety goggles.
	Obligation to use safety footwear. Indicates a requirement for personnel to use safety footwear.
	Obligation to use noise protection devices. Indicates a requirement for personnel to use earplugs or earmuffs for hearing protection.
	Obligation to use safety clothing. 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



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

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

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.

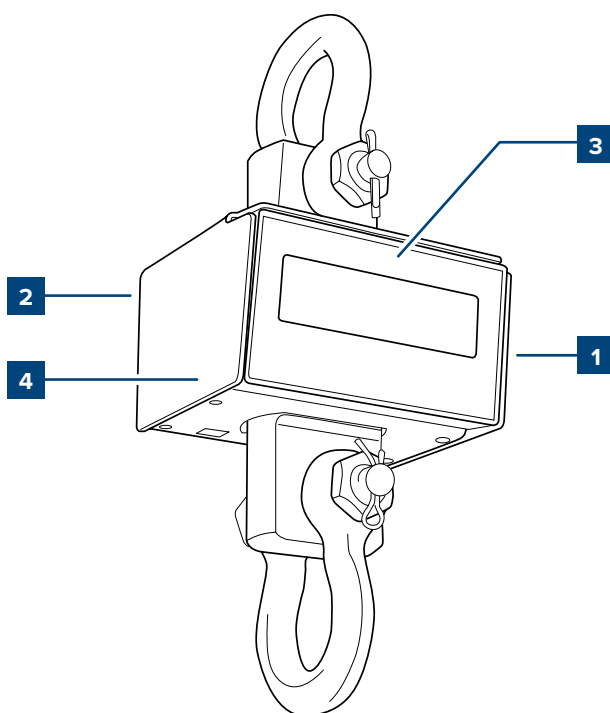
For each residual risk, a description of the risk and of the zone or part of the machine subject to the residual risk is provided (unless it is a risk valid for the entire machine). Procedural information on how to avoid the risk and on the correct use of the personal protection devices provided and 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 load falling	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	 <p> <table border="1"> <tr> <td>B1W1</td> <td>B1W2</td> <td>B1W3</td> </tr> <tr> <td>Max 300 kg</td> <td>600 kg</td> <td>1500 kg</td> </tr> <tr> <td>Min 2 kg</td> <td>4 kg</td> <td>10 kg</td> </tr> <tr> <td>e = 0.1 kg</td> <td>0.2 kg</td> <td>0.5 kg</td> </tr> </table> Mod. DFWL GB-1461 Sn 9876543210 6 V DC Art. MCWNT1-3 UK 2931 Dini Argeo - v. Fisica, 20 - 41042 Fiorano (MO) Italy </p>	B1W1	B1W2	B1W3	Max 300 kg	600 kg	1500 kg	Min 2 kg	4 kg	10 kg	e = 0.1 kg	0.2 kg	0.5 kg	CE IDENTIFICATION PLATES
B1W1	B1W2	B1W3												
Max 300 kg	600 kg	1500 kg												
Min 2 kg	4 kg	10 kg												
e = 0.1 kg	0.2 kg	0.5 kg												
2	 <p> <small> IT IS FORBIDDEN TO WALK OR TRANSIT UNDER SUSPENDED LOAD. È SOTTOPENALEMENTE VIETATO TRANSITARE SOTTO IL CARICO SOSPESO. IL EST PROHIBIT DE S'AVANCER SOTTI LA CARGA SOSPESA. VETRO SOSPESO O TRANSITARE SOTTO IL CARICO SOSPESO. PROHIBICO DE TENERSE O TRANSITAR POR DEBAJO DE UNA CARGA SOSPESA. </small> </p>	WARNING DO NOT TRANSIT UNDER THE LOAD												
3	 <p> DINI AR GEO Scales - Weighing systems www.diniargeo.com </p>	MANUFACTURER DATA STICKER												
4	 <p> YES NO MAX 6t </p>	CAPACITY STICKER												



DESCRIPTION

Intended use (correct)

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

- weighing **objects**.

Max capacity permitted:

	MODELS	RESPECTIVE CAPACITY
MCWN	Not approved: MCWNT1, MCWNT3, MCWNT6, MCWNT9	1500 kg, 3000 kg, 6000 kg, 9500 kg
	Approved: MCWNT1M, MCWNT3M, MCWNT6M, MCWNT9M	1500 kg, 3000 kg, 6000 kg, 9000 kg

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 to move the load;
- 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

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 „Przeznaczenie (prawidłowe)“;
- 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

MCWN

Material	PAINTED AND ABS STEEL		
Case dimensions	175 x 480 x 390 mm		
Weight		without packaging	with packaging
	MCWNT1	8 kg	11 kg
	MCWNT3	10 kg	14 kg
	MCWNT6	11 kg	15 kg
	MCWNT9	15 kg	18 kg
Max capacity	Not approved	MCWNT1, MCWNT3, MCWNT6, MCWNT9	1500 kg, 3000 kg, 6000 kg, 9500 kg
	Approved	MCWNT1M, MCWNT3M, MCWNT6M, MCWNT9M	1500 kg, 3000 kg, 6000 kg, 9000 kg
Power supply	BATTERY, 4 "AA"		
Keyboard	5 KEYS		
Remote control	<ul style="list-style-type: none"> infrared with 17 buttons (standard) Radio with display with 5 buttons (optional) 		
Operating life	40 hrs (without radiofrequency module)		

Permitted environmental conditions

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:

Room temperature	-10°C ~ + 40°C
Maximum relative humidity	85 % non-condensing
Room lighting	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!

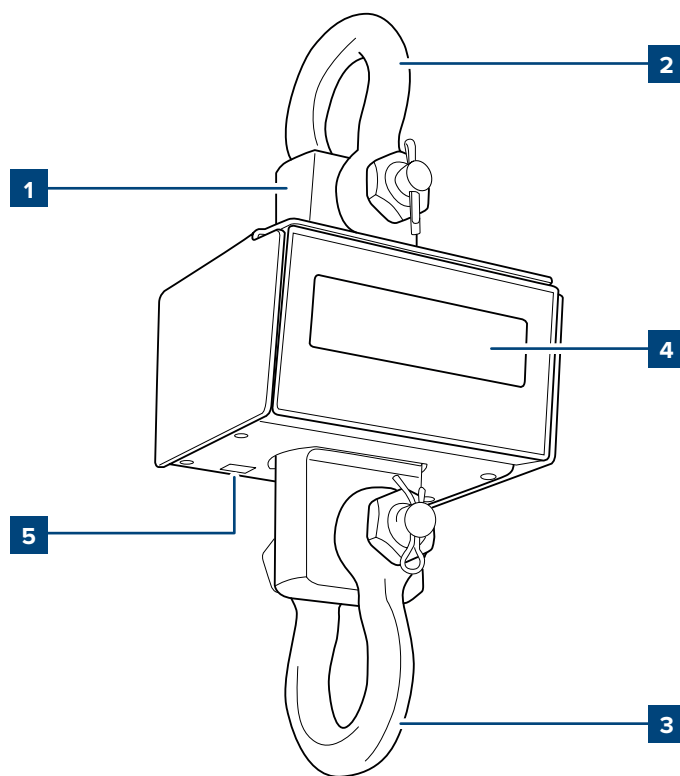
The work surface must be sufficiently illuminated.

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	SHACKLE FOR CONNECTION BETWEEN THE LIFTING EQUIPMENT HOOK AND THE LOADING CELL
3	SHACKLE 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	RJ11 STANDARD CONNECTOR FOR RS232 SERIAL CONNECTION TO ANY EXTERNAL DEVICES.

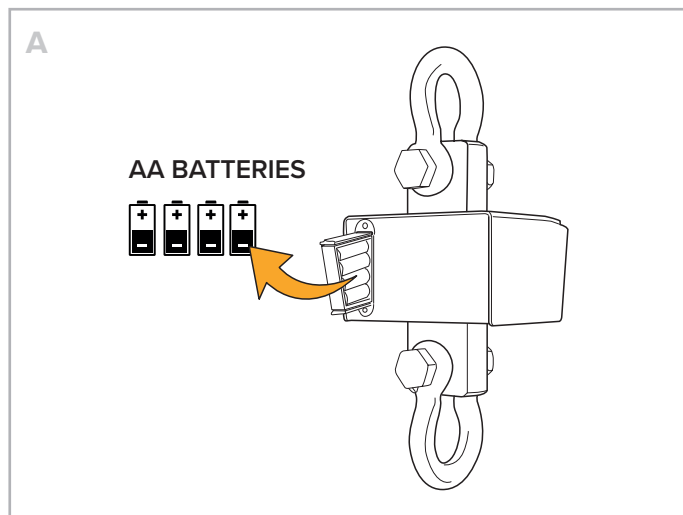


Battery

The suspended crane scale is equipped with:

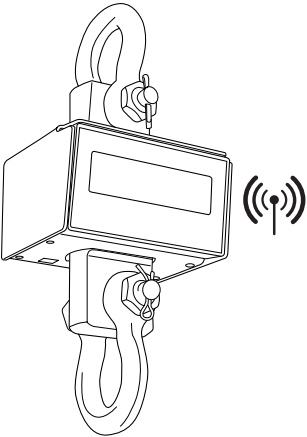
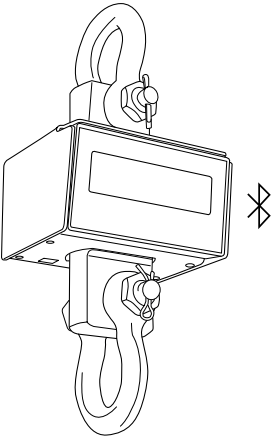
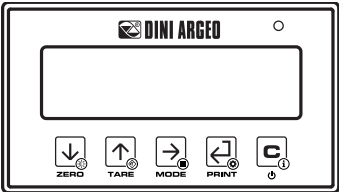
- battery holding drawer (AA type) **(A)**.

Battery life is 40 hrs.



Optional components

The machine can be equipped with the following optional components:

Component	Description and Image
<p>RADIO MODULE</p>	
<p>BLUETOOTH</p>	
<p>DFWPM</p>	<p>Repeater/Radio remote control. It only works if the radio module is present.</p> 

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

To transport the electronic suspended crane scale it is mandatory to use the respective case, designed to protect the instrument from potential impact or falls during transport. Transport must be carried out taking into account that the case must not be compressed either from above or from the sides by any external bodies. It is important that the 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 (case)

The case is moved manually or if required with appropriate means (refer to the following table to check the weight of your model).

Weights:

MODEL	WITHOUT PACKAGING	WITH PACKAGING
MCWNT1	8 kg	11 kg
MCWNT3	10 kg	14 kg
MCWNT6	11 kg	15 kg
MCWNT9	15 kg	18 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.

Assembly procedure

The MCWN electronic suspended crane scale is supplied assembled ready for use. If not, or in case of any checks, follow these installation stages:

- A. Open the case containing the electronic suspended crane scale.
- B. Install the "shackle" on top of the load cell.
- C. Install the "shackle" on bottom of the load cell.
- D. Make sure that the nuts of the shackles are fully screwed on and that the split pins are correctly positioned.
- E. Carefully place the system on the ground.
- F. Make sure and check the suitability of the crane hook where the electric suspended crane scale will be installed.
- G. Connect the system to the safety hook of the crane, making sure that the "shackle" rests on the saddle of the crane hook and that the relative lever is positioned safely.
- H. Once the system has been harnessed, move away and lift it a few centimetres from the ground.



WARNING!

Although the weight is less than 25 kg, be careful when handling the case so as to prevent bumps or falls that may cause damage to the instrument and/or people.

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

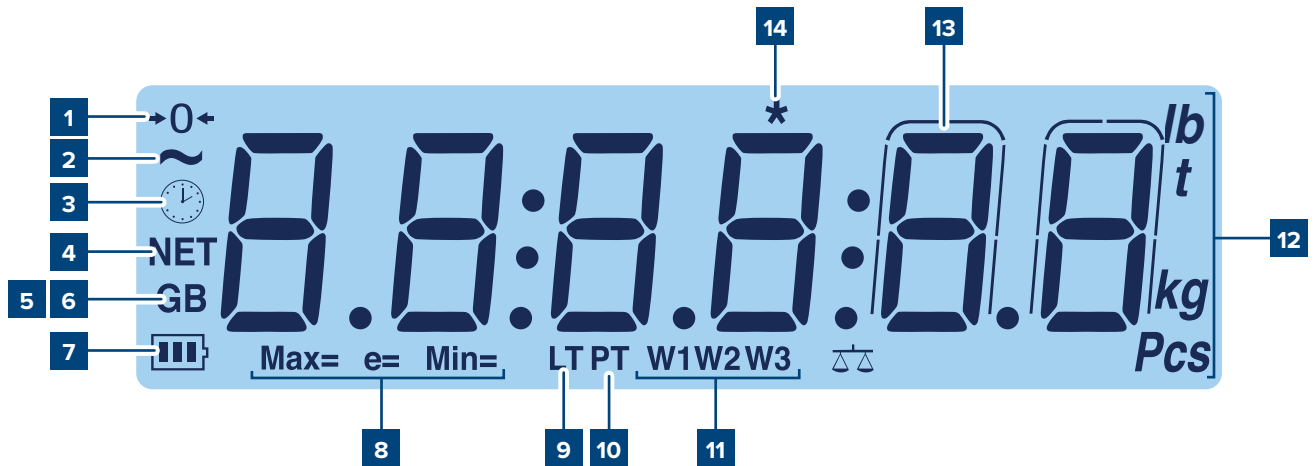


WARNING!

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

COMMANDS






Display



Pos.	Icon	Description
1	→0←	Indicates that the scale is unloaded and at zero (gross).
2	~	Indicates that the weight is unstable.
3	🕒	Displays the time.
4	NET	The net weight is displayed. Note: there is a saved tare.
5 / 6	G B	The gross weight is displayed.
7	🔋	Indicates the battery level: 🔋 🔋 🔋 🔋
8	Max= Min= e=	Metrics are displayed.
9	LT	A locked tare is enabled.
10	PT	A manual tare is enabled.
11	W1 W2 W3	Indicate the range of active weighing.
12	lb ... Pcs	Indicates the units of measurement: pounds (lb), tonnes (t), kilograms (kg), grams (g), number of pieces (pcs).
13	📏	The weight is displayed in high resolution.
14	*	This means a key is pressed. In some operating modes, it means that a specific function is enabled.

Keyboard



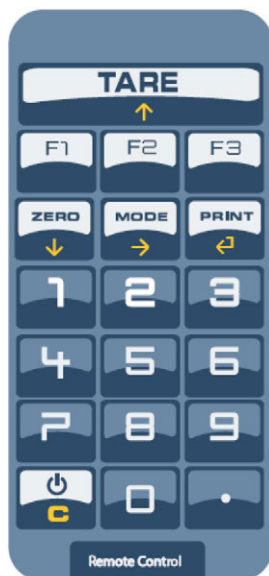
Button	Description
	<ul style="list-style-type: none"> Resets the weight on the scale. If held down (2 sec), it is possible to set the brightness of the display.
	<ul style="list-style-type: none"> This tares the scale. If held down (2 sec), a preset tare can be entered.
	<ul style="list-style-type: none"> This retrieves the specific function of the operating mode. If held down (5 sec), it changes the operating mode.
	<ul style="list-style-type: none"> Confirm key. Prints the receipt. If held down (5 sec), the configuration menu is accessed.
	<ul style="list-style-type: none"> If pressed for 2 sec it switches off the instrument. If pressed for 5 sec it displays the metrological information.











WARNING!

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

Remote control

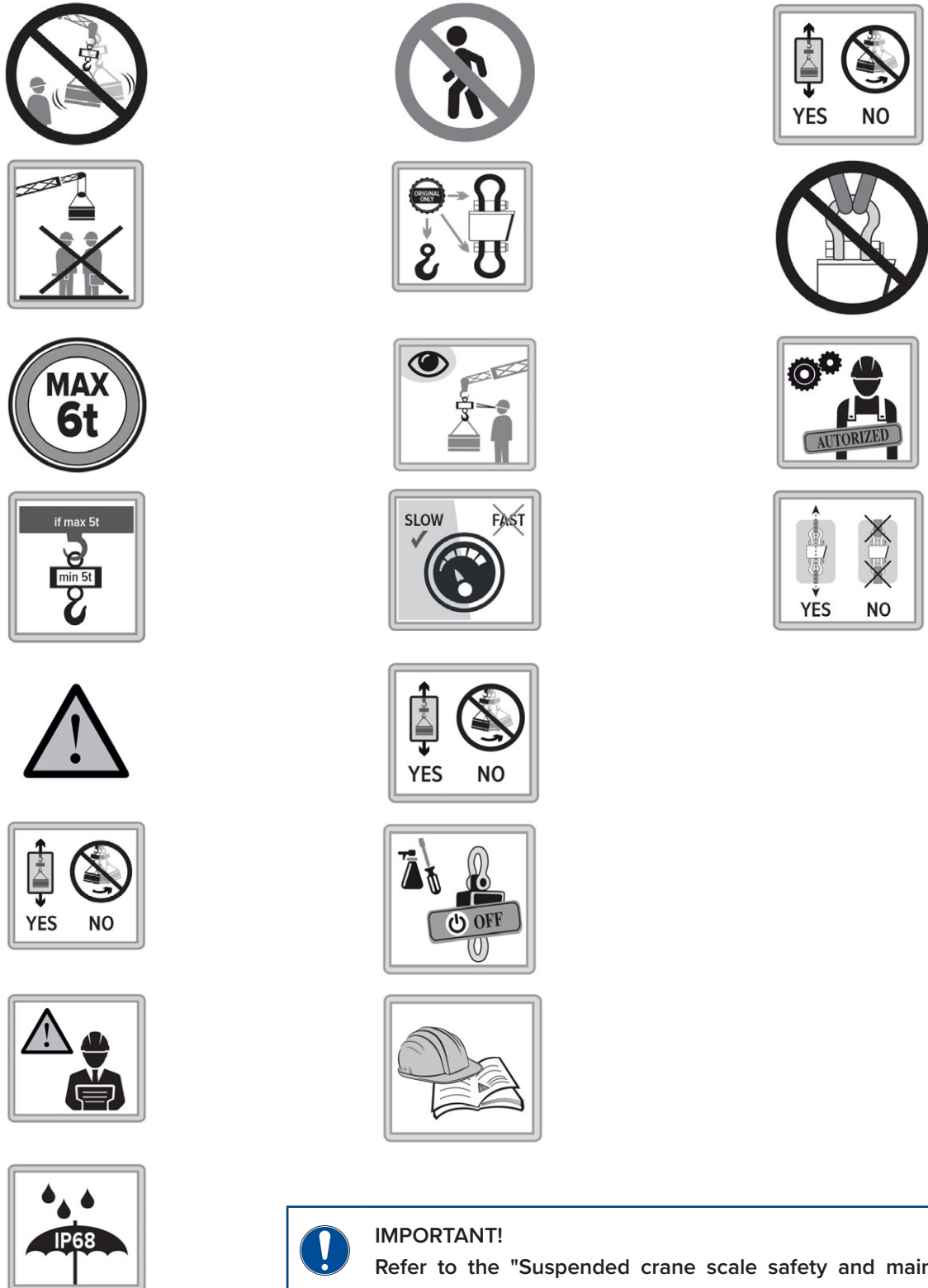


Button	Description
	<ul style="list-style-type: none"> To select the desired function. If held down, the brightness of the display changes.
	<ul style="list-style-type: none"> C key or stand-by function if held down.
	<ul style="list-style-type: none"> To enter digits.
	<ul style="list-style-type: none"> Tare key or increase of the digit when entering a value.
	<ul style="list-style-type: none"> Mode key or move cursor to the right while entering a value.
	<ul style="list-style-type: none"> Print or confirm key.
	<ul style="list-style-type: none"> Not managed.
	<ul style="list-style-type: none"> Not managed.

NOTE: Infrared remote controls are for internal use only.

USE

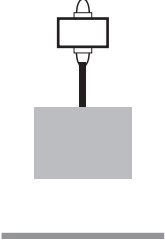
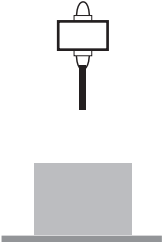
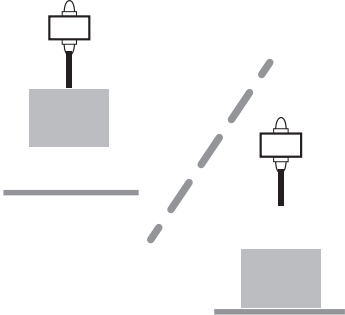
General warnings for correct use



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 (represented by a rectangle with a hook) positioned above a load (represented by a grey square). The load is suspended from the scale, and a horizontal line below the load indicates its original position on the ground. This represents the condition where the scale is on and the load is raised.</p>	<p>The suspended crane scale is on and the load is in position raised from the ground.</p>
 <p>The diagram shows a crane scale positioned above a load that is resting on the ground. This represents the condition where the scale is on and the load is being unloaded.</p>	<p>The suspended crane scale is on and unloading.</p>
 <p>The diagram shows two crane scales. On the left, a scale is positioned above a load on the ground. On the right, a scale is positioned above a load that is suspended in the air. A dashed diagonal line separates the two scenarios. This represents a condition where the scale's state (loading or unloading) is irrelevant.</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 status of the shackles;
- check the status of the crane;
- check nuts and split pins;

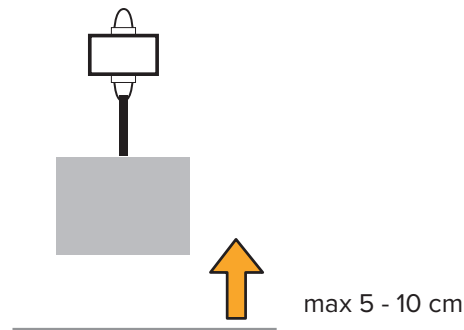


IMPORTANT!

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.

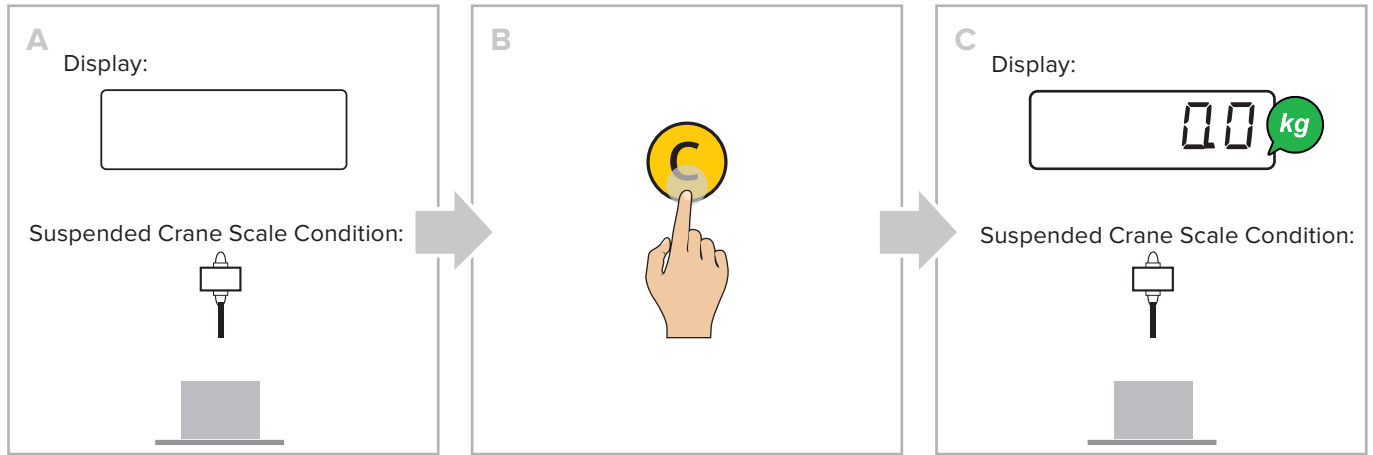


WARNING!

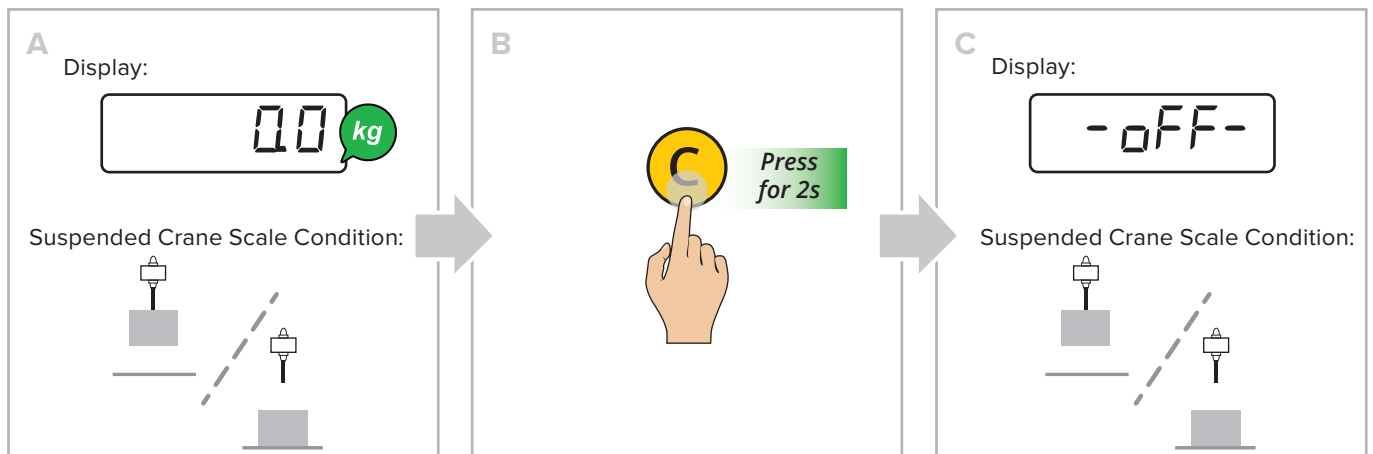
Make sure the load is fully raised from the ground.

BASIC SCALE FUNCTIONS

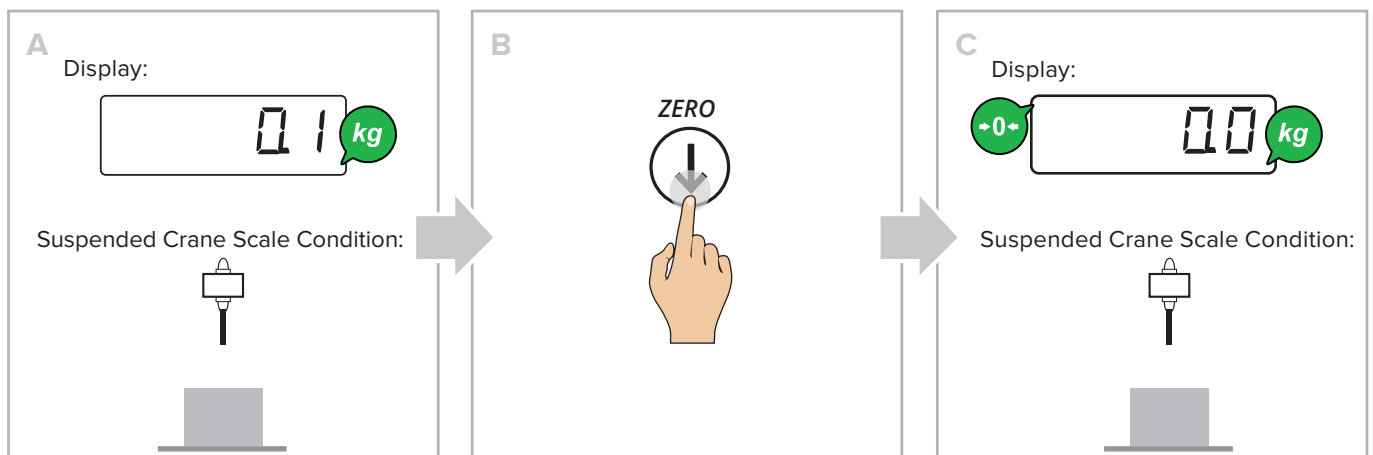
Start-up - On



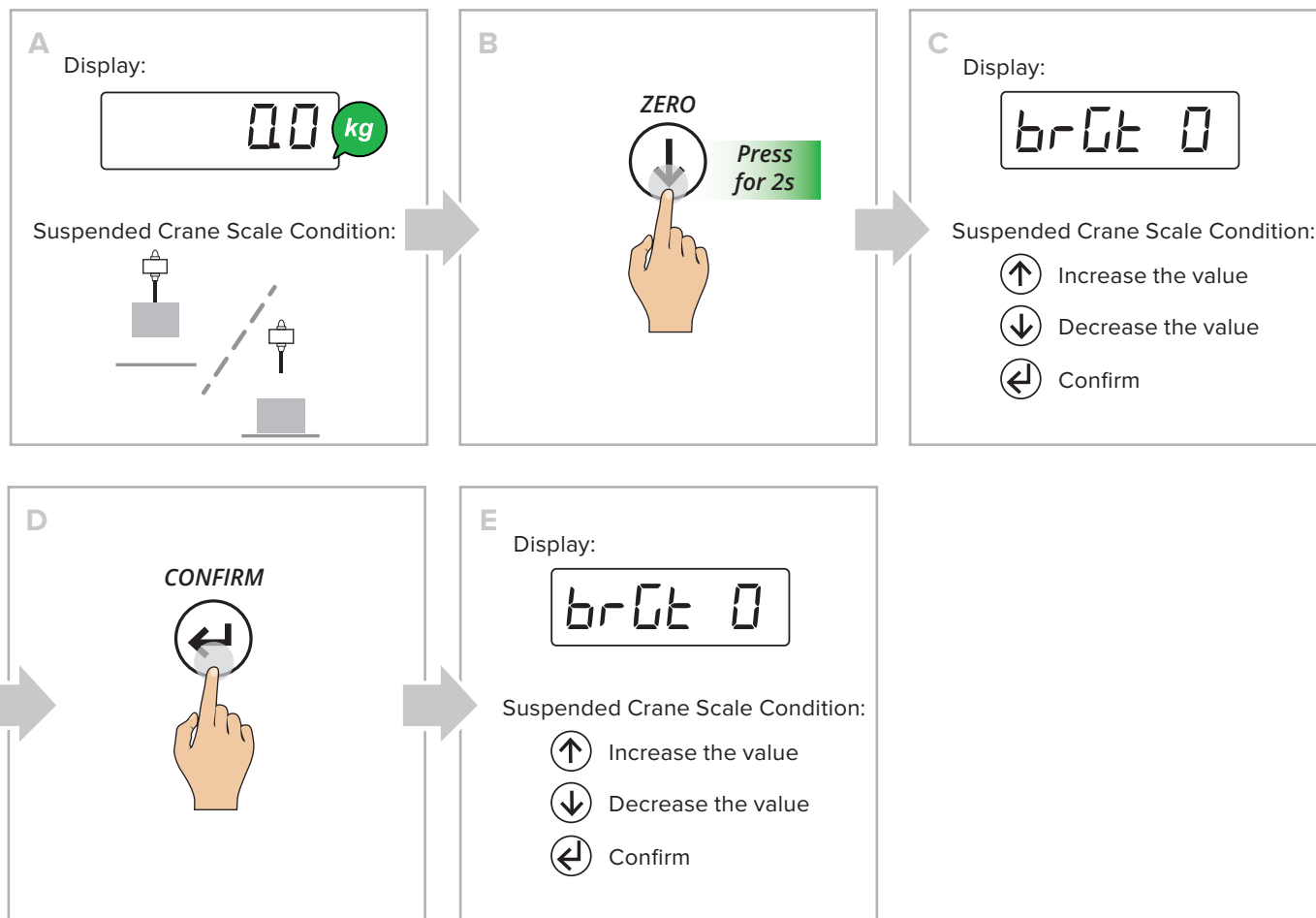
Shutdown - Off



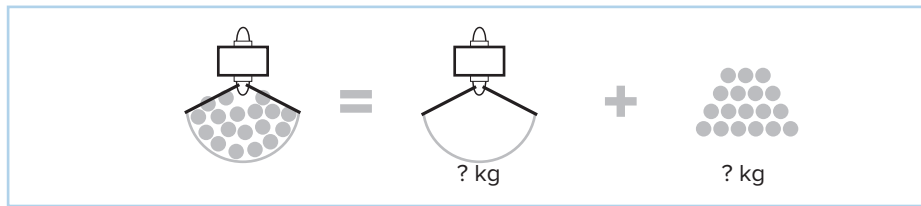
Zero



Display brightness adjustment



Automatic tare



A Display: 15.0 kg

Suspended Crane Scale Condition:

B TARE

C Display: 0.0 kg

NET

LT

Suspended Crane Scale Condition:

D Display: 0.0 kg

Suspended Crane Scale Condition:

E Display: 120.0 kg

Suspended Crane Scale Condition:

Tare deletion

A Display: -15.0 kg

Suspended Crane Scale Condition:

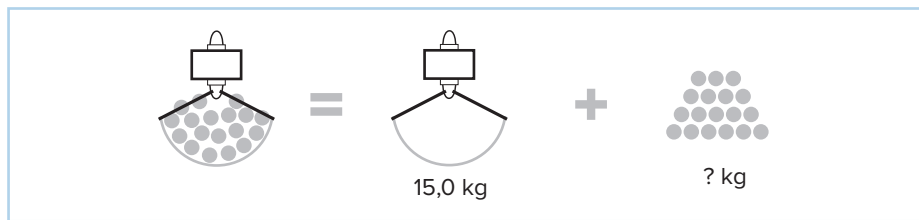
B TARE

C Display: 0.0 kg

G

Suspended Crane Scale Condition:

Set a known tare value (PT)



A Display: kg

Suspended Crane Scale Condition:

B TARE Press for 2s

C Display: kg

Setting the tare value:

 Increase / Decrease the value

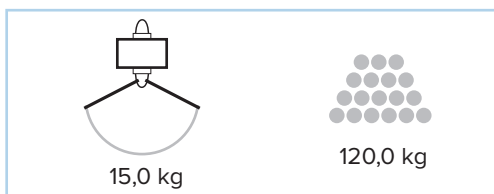
D CONFIRM

E Display: kg

Suspended Crane Scale Condition:

F Display: kg

Suspended Crane Scale Condition:

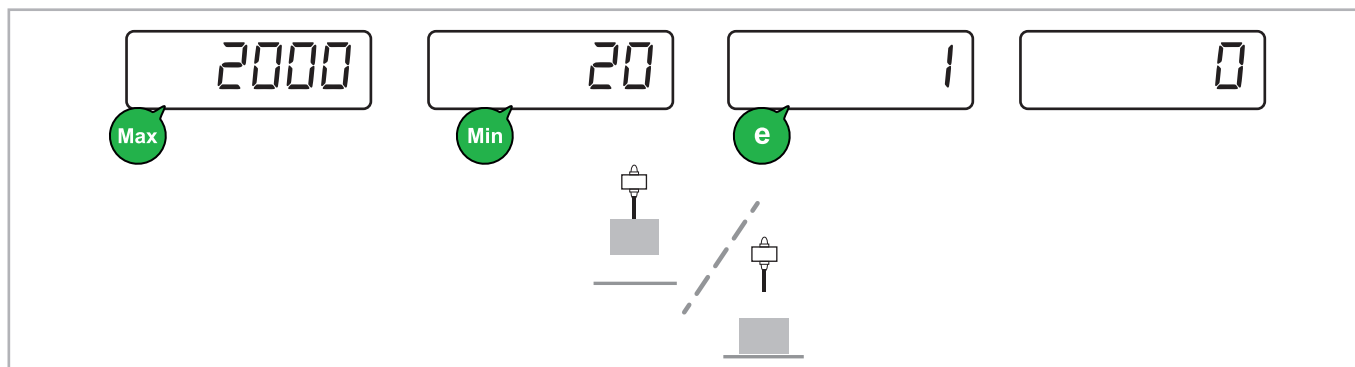
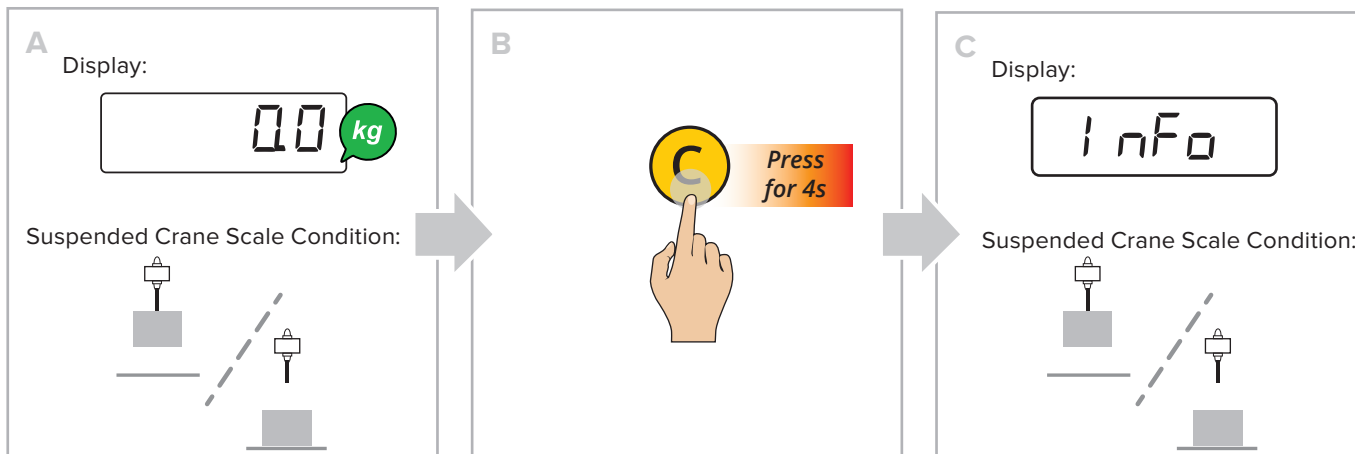


The tare can be entered quickly from the number buttons on the infrared remote control:

A Enter the tare value:

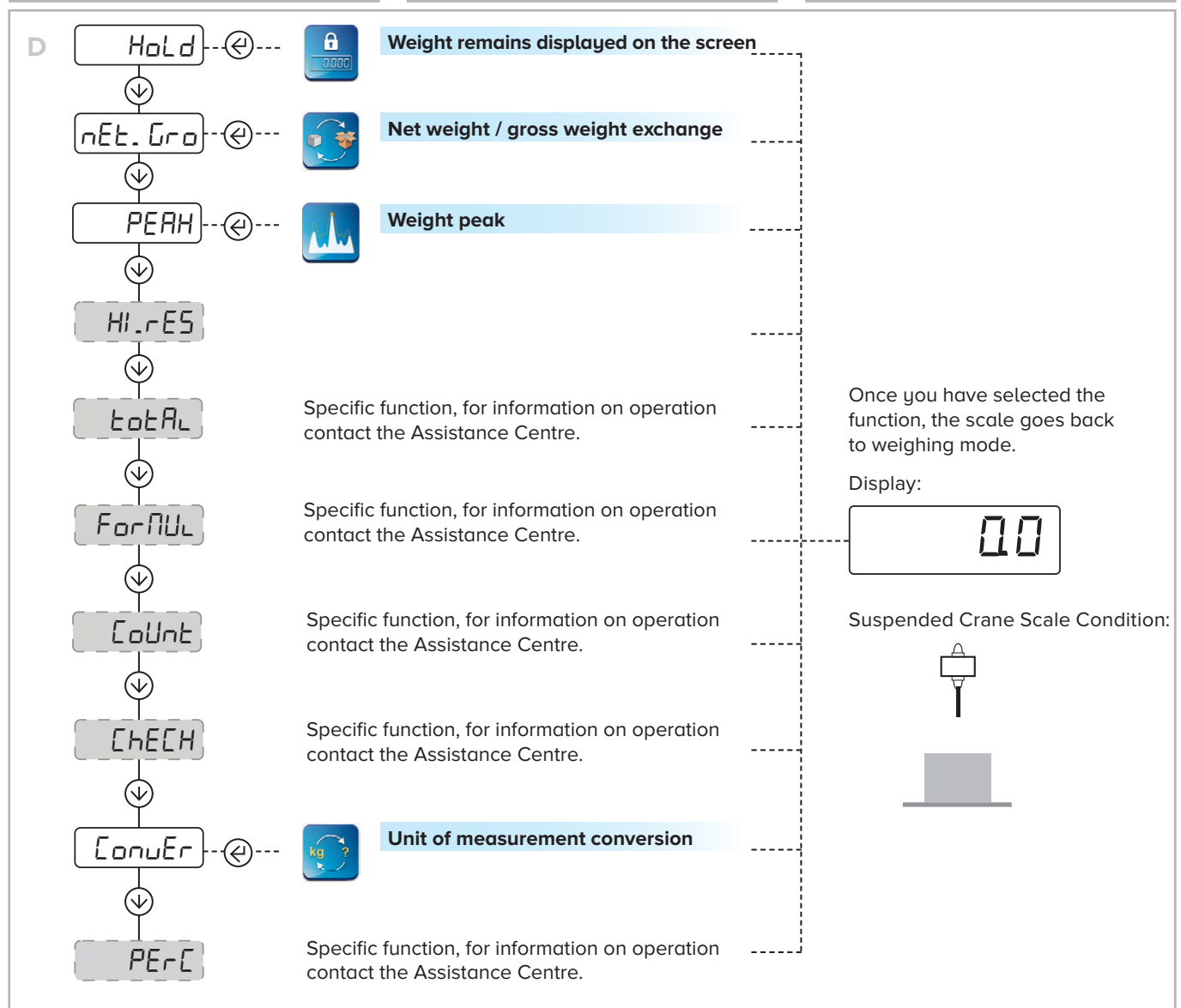
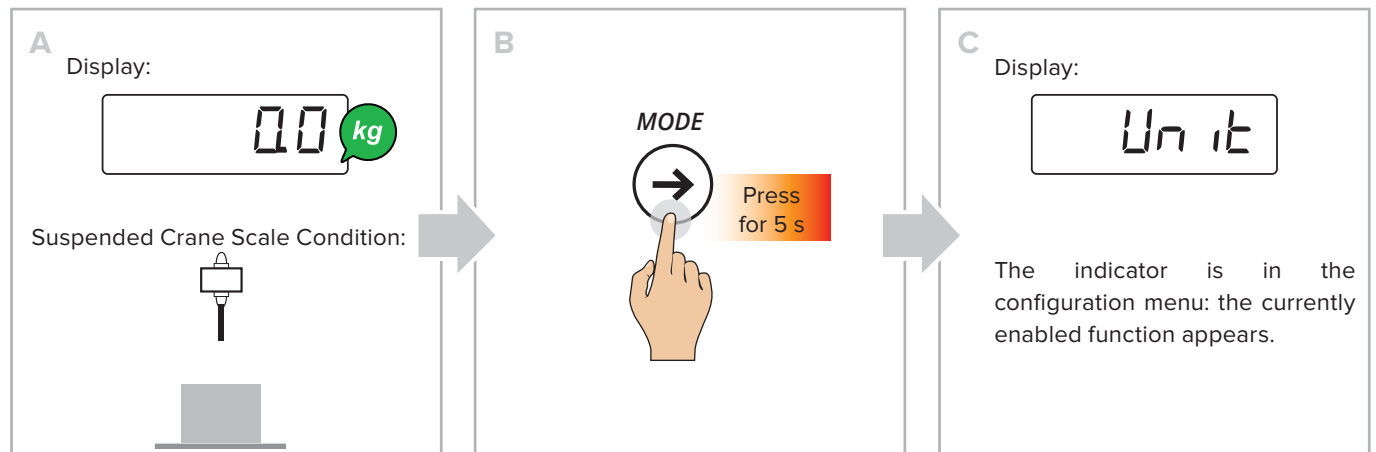
B TARE

Metrics

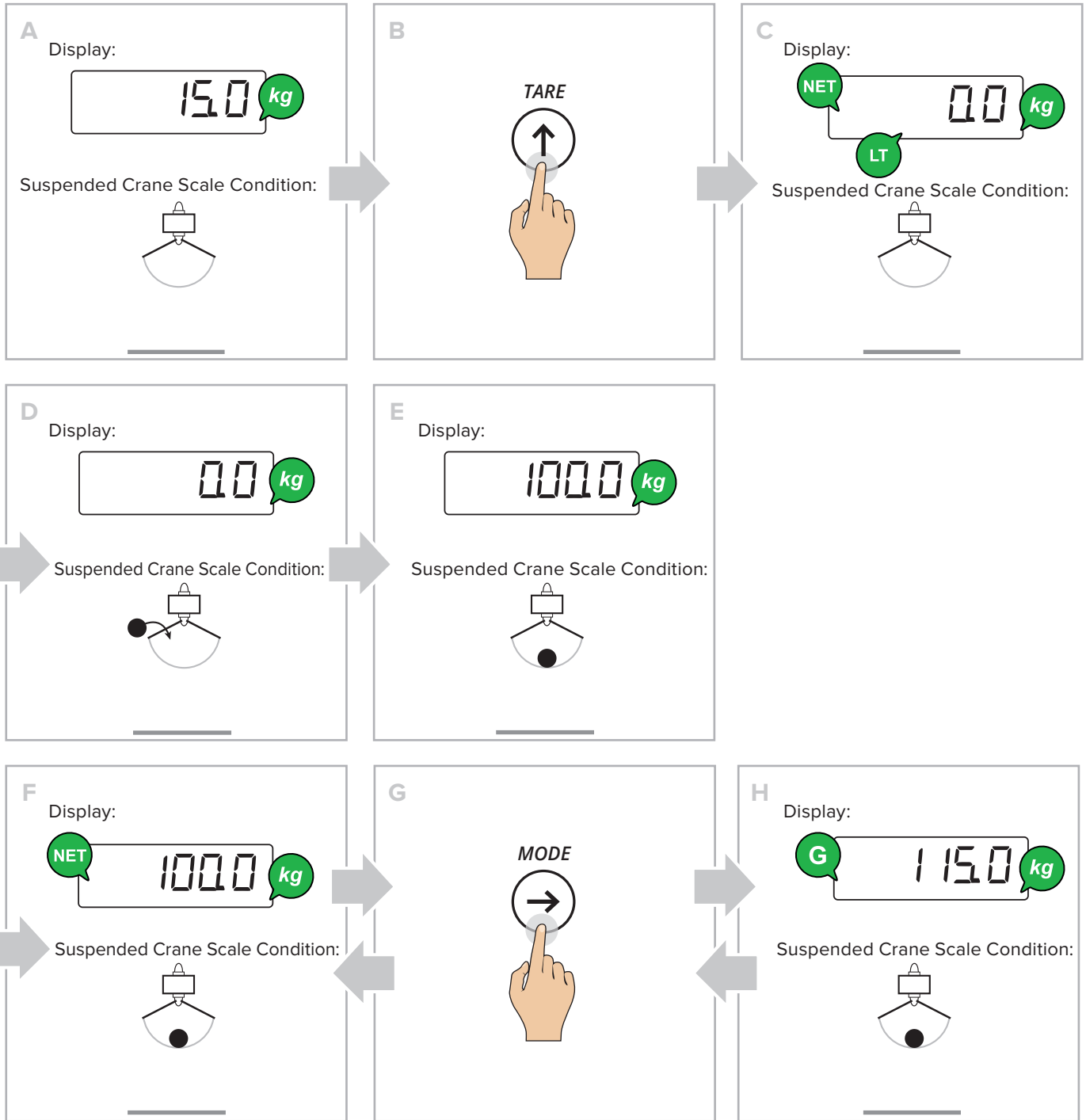


ADVANCED SCALE FUNCTIONS

How to access the function menu



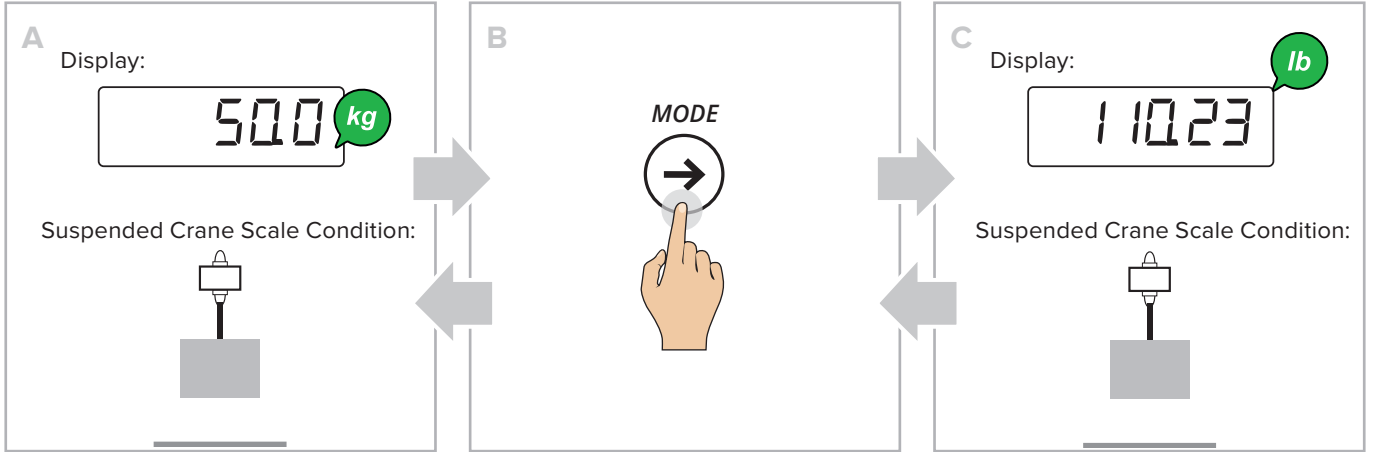
Exchange between net weight and gross weight




You can go from net weight to gross weight at any time by pressing ^{MODE} (→).

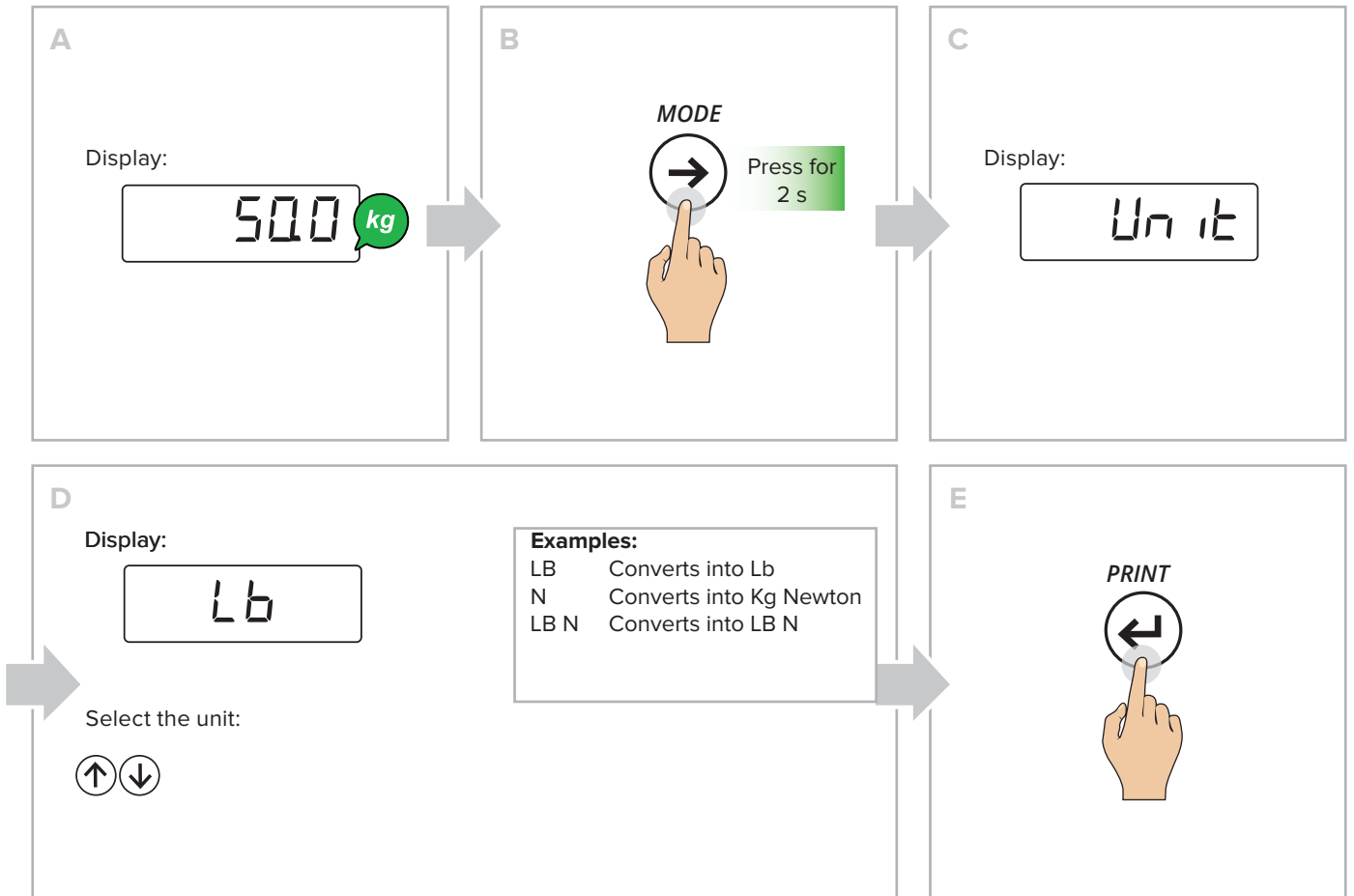
Unit of measurement conversion

HOW TO COVERT THE UNIT OF MEASUREMENT INTO POUNDS (STANDARD MODE)

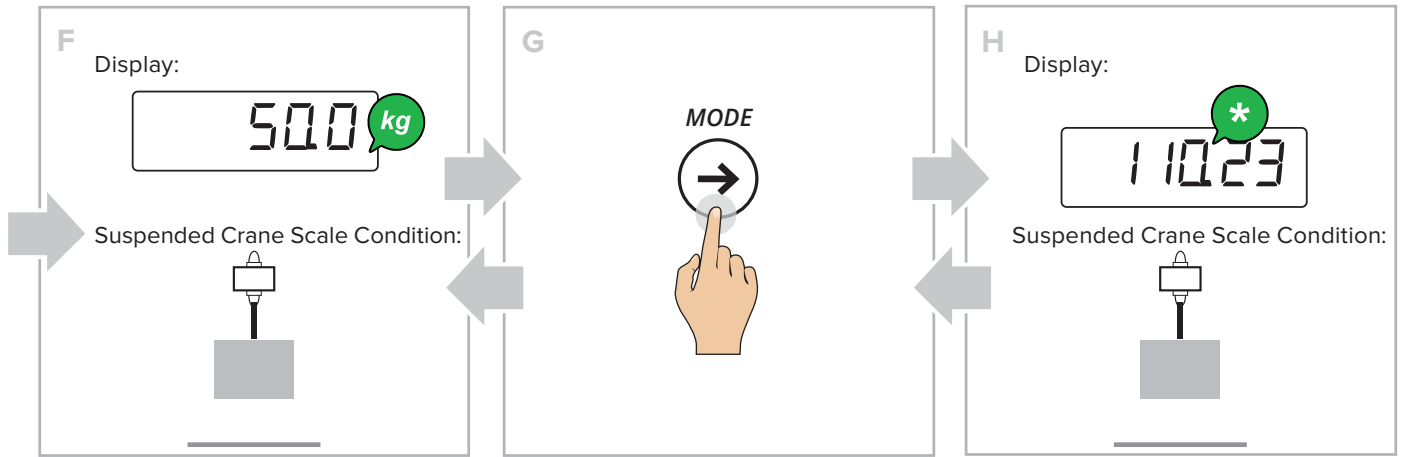



i You can go from weight in kg to weight in pounds at any time by pressing .

HOW TO CONVERT THE UNIT OF MEASUREMENT WITH FREE CONVERSION FACTOR



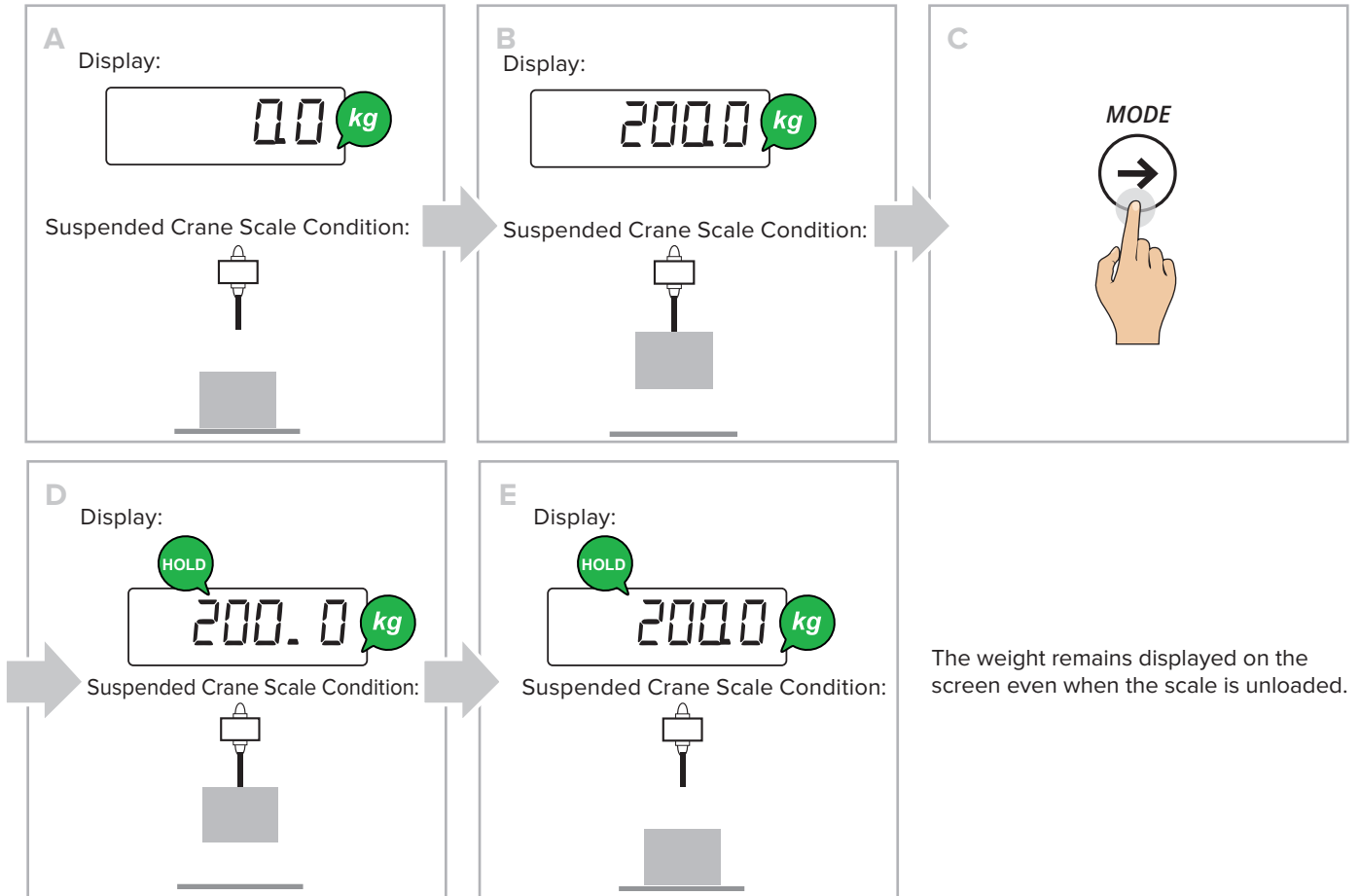
continue →



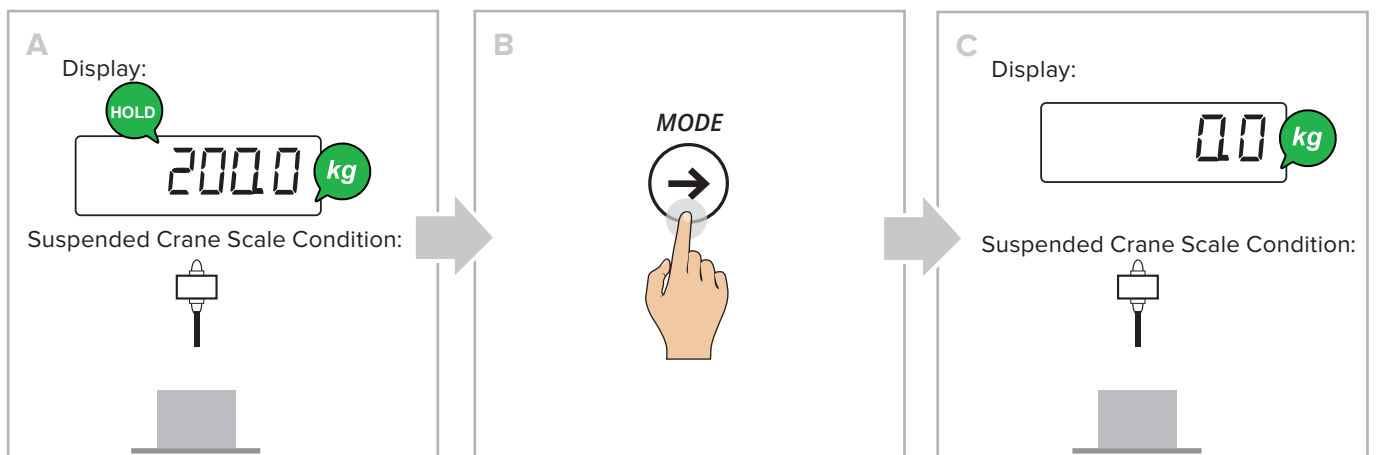
i You can convert the unit of measurement with free conversion factor at any time by pressing ^{MODE} .

Weight remains displayed on the screen

HOW TO ENABLE THE FUNCTION

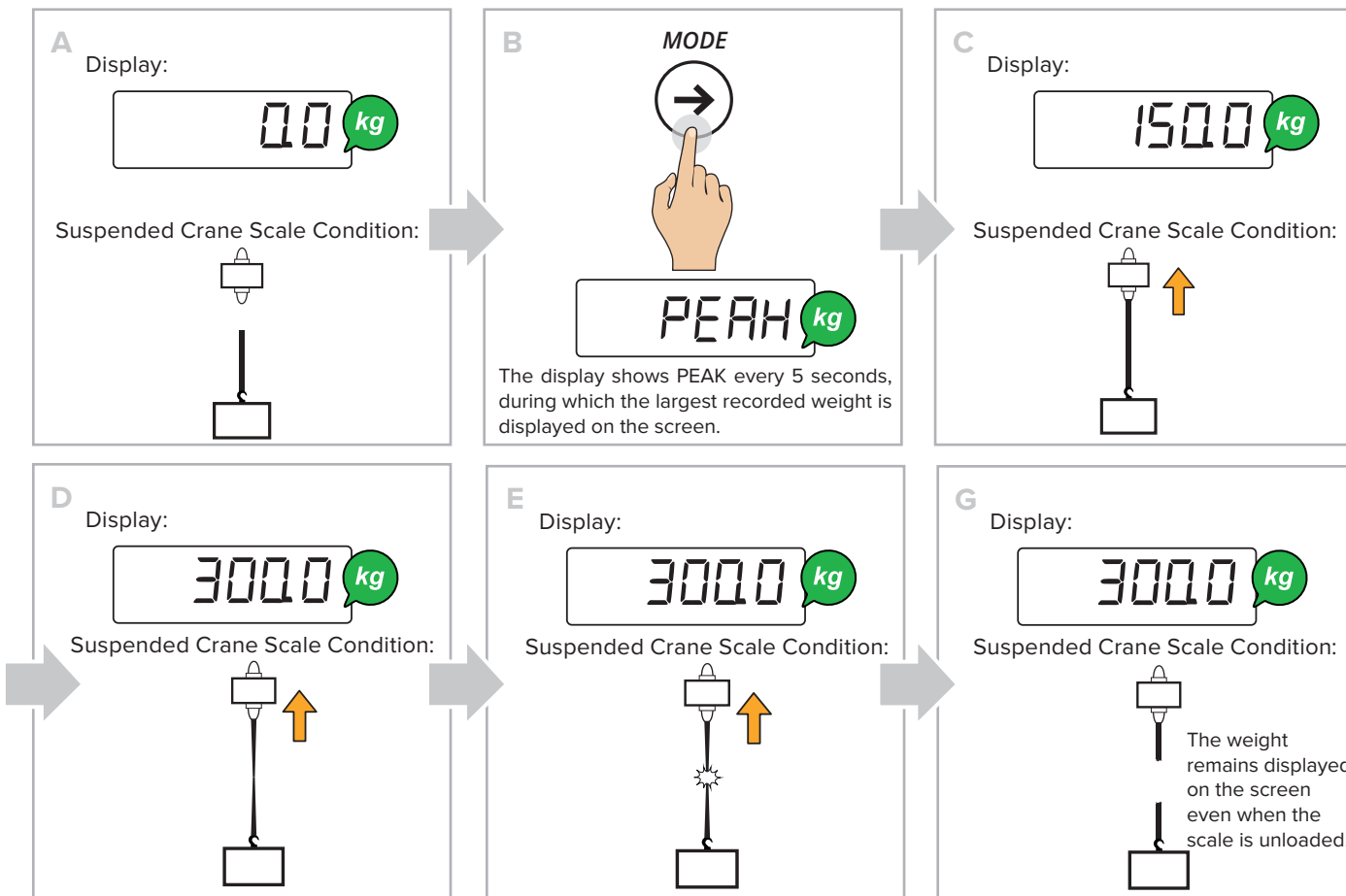


HOW TO DISABLE THE FUNCTION

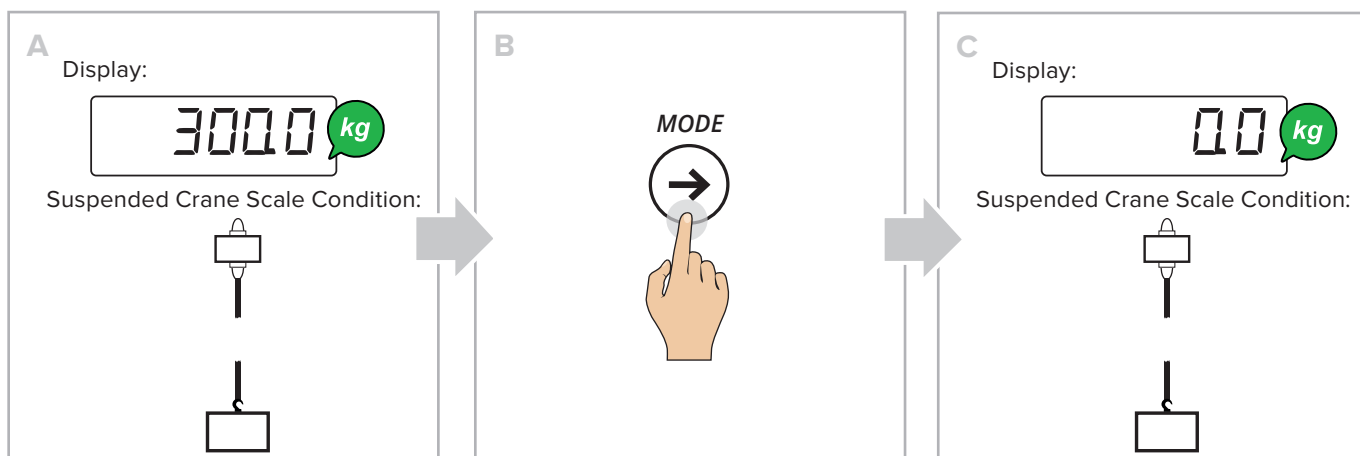


Weight peak

HOW TO ENABLE THE FUNCTION

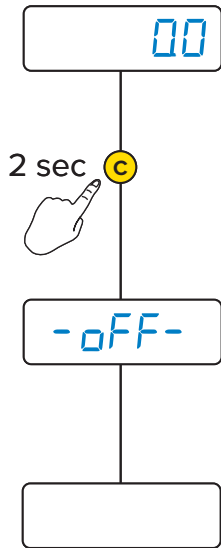


HOW TO DISABLE THE FUNCTION

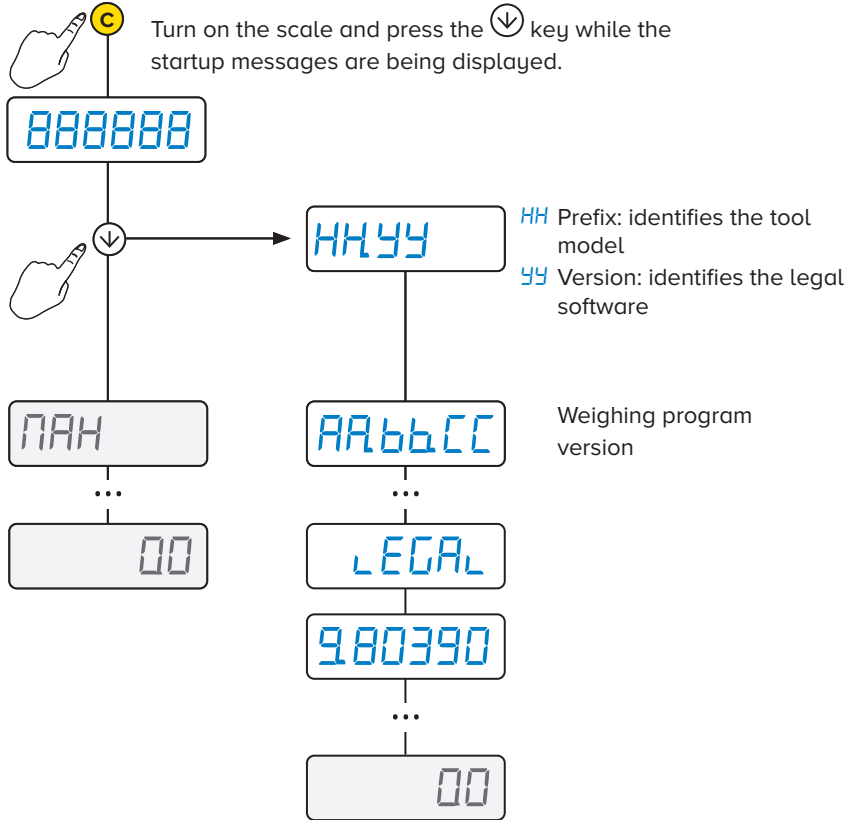


METROLOGICAL SCALE INFORMATION

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	The scale does not tare	<ul style="list-style-type: none"> • The weight is unstable (UNSTAB) • The gross weight is negative (LO!) • The weight is insufficient • The weight exceeds the maximum capacity • The tare function has been disabled • With manual tare, the value exceeds the maximum capacity
WEIGHING	The scale does not switch on	<ul style="list-style-type: none"> • Check the correct insertion of the battery holder. • Replace the battery and try again. If the instrument continues to malfunction, contact the dealer.
	The scale switches off suddenly	<ul style="list-style-type: none"> • Automatic switch-off enabled • Low battery • Power supply line failure
	The scale is not reactive	<ul style="list-style-type: none"> • One of the available energy saving modes has been enabled • An unsuitable weighing filter has been selected
	The scale screen switches off and displays a dot	<ul style="list-style-type: none"> • Stand-by mode is enabled: press a key to re-enable weighing. • Energy saving mode is enabled: contact the dealer for further details.
	The scale displays a permanent "Zero" message	<ul style="list-style-type: none"> • The scale is unable to automatically reset the weight because it exceeds the maximum resettable weight at switch-on. • Release the hook and try again. If the scale continues to have the same problem even when the hook is unloaded, contact the dealer.
	The weight is unstable	<ul style="list-style-type: none"> • Check whether the weighing filter is enabled. • If the system is subjected to vibrations from machinery or moving vehicles, move the scale onto another surface and try again.

Error messages

MESSAGE	DESCRIPTION	SOLUTION
<i>UnStAb</i>	The weight is unstable	Check the weighing filter. If the support surface is subjected to vibrations from machinery or moving vehicles, move the scale onto another surface and try again.
<i>LoU</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 customer service.
<i>no. 0. UnS</i>	The scale was not unloaded after the last print out	Completely unload the scale, making sure •0• lights up. Load the weight and try again.
<i>Err. Not</i>	The weight is unstable	Wait for stability (the ~ indicator appears) and try again.
<i>Error</i>	In piece counting mode, the weight is insufficient for proper sampling.	Add more pieces and try again.



HEAD OFFICE

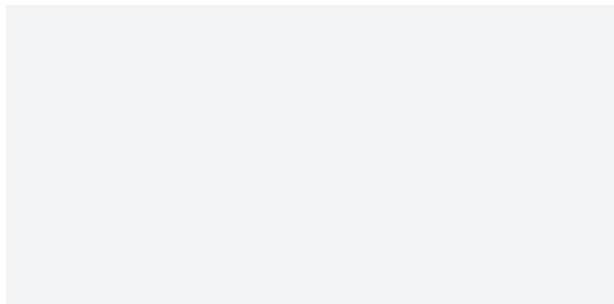
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www.diniargeo.com

Authorised service centre stamp



The information in this document is approximate and can be subject to variations without prior notice by Dini Argeo, with respect of the norms in force. The official technical data is available in the updated version on the www.diniargeo.com website or by contacting the Dini Argeo Customer Service.