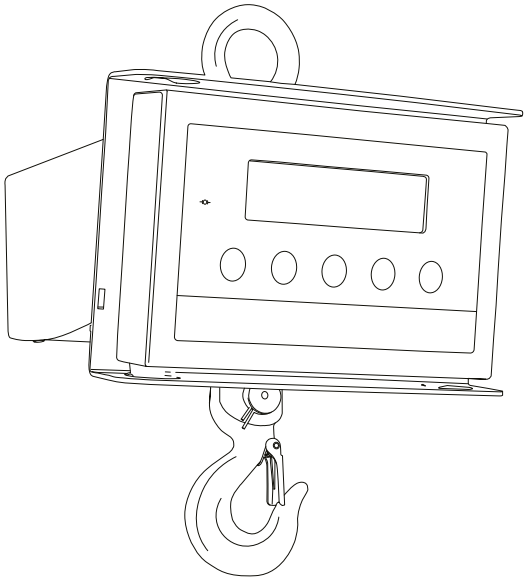
DINI ARGEO
Scales - Weighing systems

MCW PROFESSIONAL

Professional electronic suspended crane scale

USER, INSTALLATION, MAINTENANCE INSTRUCTIONS **ENGLISH**



www.diniargeo.com

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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.

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- The crossed-out wheelie 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

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

Machine	**DIGITAL SUSPENDED CRANE SCALE**
Model	**MCW PROFESSIONAL**

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 at: www.diniargeo.com, by entering the serial number on the identification plate of the product.

DINI ARGEO
Scales - Weighing systems
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, ES - IZJAVA O SKLADNOSTI, ES ATITIKTIES DEKLARACIJA , ES VYHLÁSENIE O ZHODE,EU DECLARATI DEKLARACJA ZGODNOŚCI, EU MEGFELELŐSÉGI NYILATKOZAT

English	We declare under our sole responsibility that the products to which this declaration relates, is in conformity 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 réfère 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 hace referencia 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 aos quais se referem a esta declaração, são conformes ao seguinte padrão eo documento de regulamentação.
Romana	Declaram pe propria raspundere ca produsele la care se referă această 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, kurie nurodyti 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/Modelo:	DFW06 MCW1500R2-1
Numero di serie/Serial number/Numéro di série/Seriennummer/ Serijinis numeris/Sériové číslo:	dini_mcwpro
N° CE del Tipo/ EC type Examination certificate/ EU-Baumusterprüfbescheinigung/ /EB tipo patvirtinimo sertifikatas/ES certifikát typu:	0200-NAWI-06080 Notified Body FORCE CERTIFICATION
Certificato di prova / Parts (Test) Certificate / Certificat d'essai / de partie / Teilegutachten (Prüfschein)/ Bandymų sertifikatas/Test certifikát//Tipo jóváhagyási bizonyítvány:	0200-WL-05741

EU Directive	**Standard**
2014/30/EU EMC	EN [illegible] : 2013
2014/35/EU LVD	EN [illegible]1 : 2010
2011/65/EU (RoHS)	EN IEC [illegible]:2018

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

1

FAC-SIMILE

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**
- **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

- **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
- **Testing certificate** available on the diniargeo.com site in the documents 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, ordinary maintenance), refer to the following table:

Qualification	Description
OPERATOR	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. 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. **Note**: they are not authorised to carry out any maintenance operation.
MECHANICAL MAINTENANCE TECHNICIAN	Qualified technician able to perform preventive/corrective maintenance on all mechanical parts of the machine subject to maintenance or repair. Qualified technician able to access all machine parts for visual analysis, checking the equipment status, adjustments and calibrations. **Note**: they are not authorised to operate on live electrical systems (if any).
MANUFACTURER'S TECHNICIAN	Technician qualified by the Manufacturer and/or their distributor for complex operations, as they are knowledgeable of the machine's production cycle. This person operates according to the user's requests.

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.

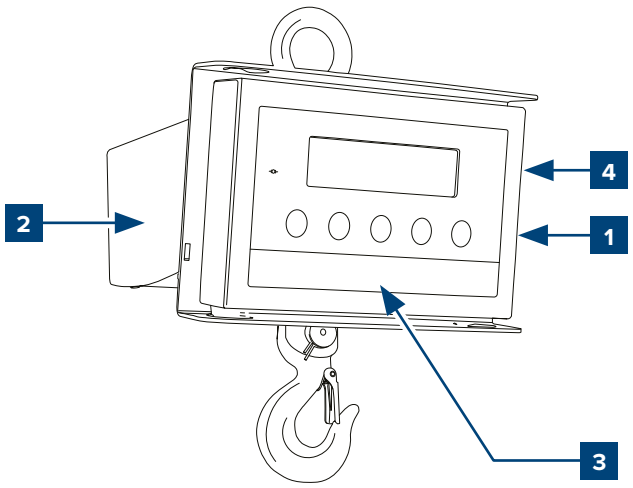
For each residual risk, a description of the risk and of the zone or part of the machine subject to the residual risk is provided (unless it is a risk valid for the entire machine). Procedural information on how to avoid the risk and on the correct use of the personal protection devices provided and 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 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	DINI ARGEO Scales - Weighing systems www.diniargeo.com	MANUFACTURER DATA STICKER
4	MAX 1.5t	CAPACITY STICKER



DESCRIPTION

Intended use (correct)

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

- **weighing objects.**

Max capacity permitted:

	MODELS	RESPECTIVE CAPACITY
MCW PROFESSIONAL	Not approved: MCW300R2 MCW600R2 MCW1500R2	 300 kg 600 kg 1500 kg
	Approved: M MCW150MR2 MCW300MR2 MCW600MR2 MCW1500MR2	 150 kg 300 kg 600 kg 1500 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;
- use the machine without shackle/hook;
- 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 **“Intended use (correct)”**;
- 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 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

MCW09 PROFESSIONAL

Material	STAINLESS STEEL
Packaging dimensions	Cardboard box: 370 x 350 x 290 mm (length - height - width)
Weight	

	without packaging	with packaging
All models	18 kg	19 kg

Max capacity

MODELS	RESPECTIVE CAPACITY
Not approved: **MCW300R2** **MCW600R2** **MCW1500R2**	 300 kg 600 kg 1500 kg
Approved: M **MCW150MR2** **MCW300MR2** **MCW600MR2** **MCW1500MR2**	 150 kg 300 kg 600 kg 1500 kg

Power supply	BATTERY POWERED
Keypad	5 KEYS
Radio remote control	19-key infrared remote control (max 8m)
Operating time	Approx. 40 hours

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:

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

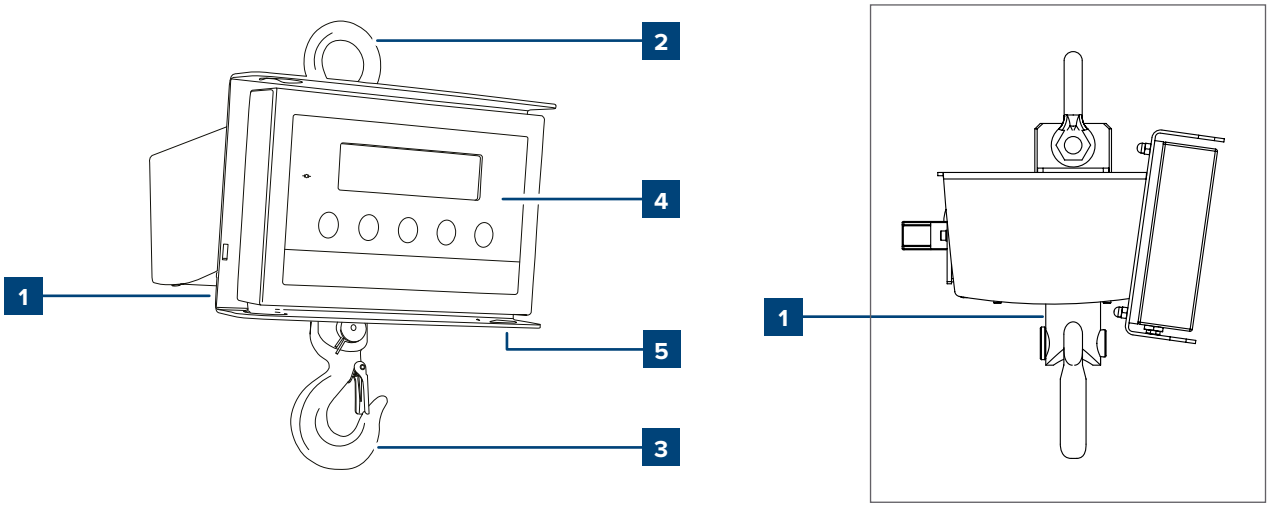
WARNING
Environmental conditions other than those specified may cause serious damage to the machine and void the warranty.

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 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 (PRESENT IN MODEL WITH RADIO MODULE)



Battery

The suspended crane scale is equipped with a rear battery.
Battery life is 40 hrs.

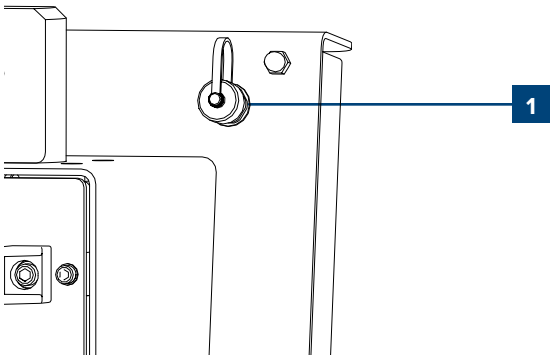


The battery can be charged using the 12 V power supply (included) to be connected to the 230 Vac mains.

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

To perform the correct procedure, proceed as described below:

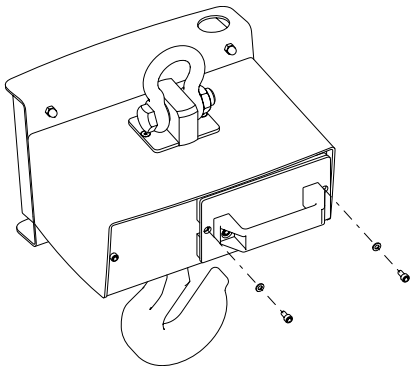
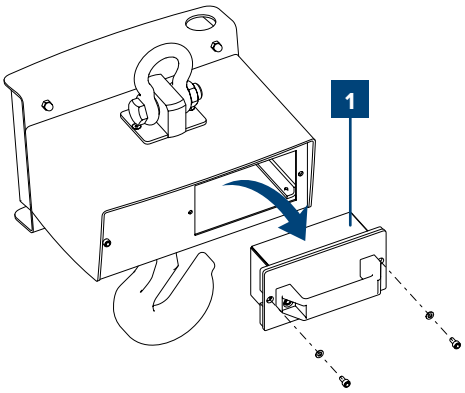
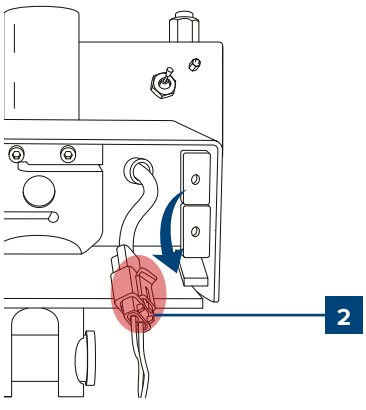
Step	Action	Image
1	Pull the rubber plug out of the connector (1) at the back of the equipment.	
2	Insert the jack plug of the power supply (12Vdc) into the connector (1) on the back of the equipment.	
3	Plug the power supply unit (12Vdc) into the 230Vac mains socket. NOTE: When operations are complete, the power-on LED on the front panel of the suspended crane scale will light up.	

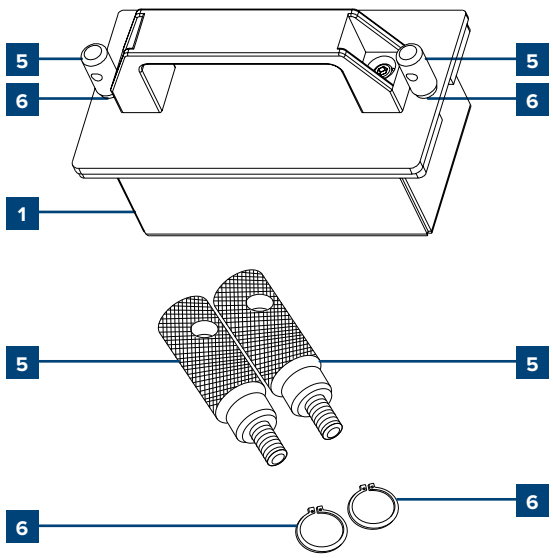
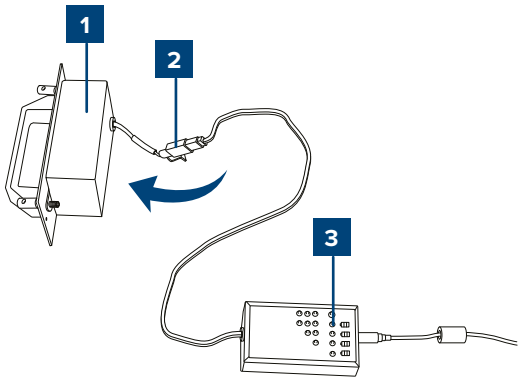
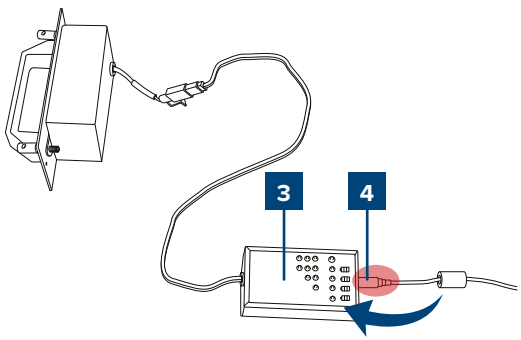
WARNING
The battery must be recharged using only the original 12Vdc power supply unit supplied with the suspended crane scale.

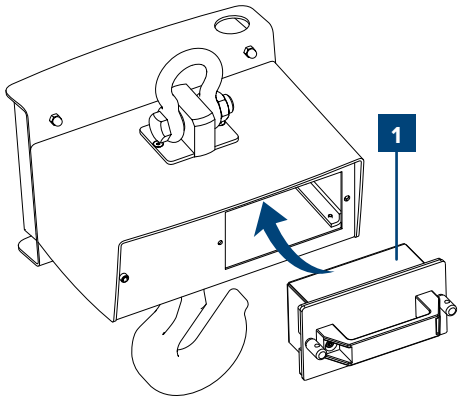
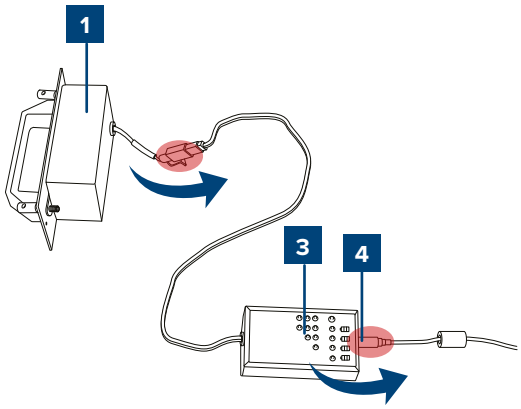
Procedure for recharging the battery using the optional kit

An optional kit 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 screws on the back of the suspended crane scale.	
2	Slowly pull out the battery pack (1).	
3	Disconnect the connector (2) from the battery pack.	

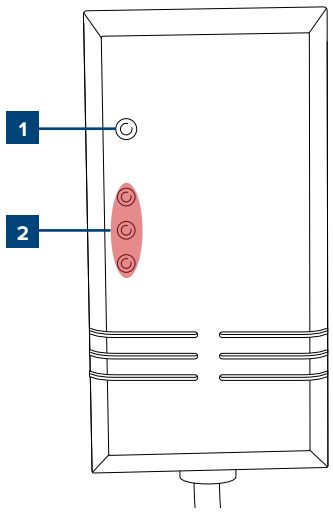
Step	Action	Image
4	Install the two screw-on knobs (5) with their respective circlips (6) on the battery pack, replacing the screws already on the battery. Screw-on knobs with their respective circlips are included in the optional kit.	
5	Connect the battery charger (3) to the battery pack (1) via the appropriate connector (2).	
6	Plug the 12Vdc power supply unit into the 230Vac mains socket and connect it to the battery charger (3) using the connection jack (4).	

Step	Action	Image
7	Connect the replacement battery pack (1) to the suspended crane scale while the battery pack is charging.	
8	Upon completion of the charge: 1. disconnect the charger (3) from the connection jack (4) of the power supply unit. 2. disconnect the battery pack (1) from the charger (3).	

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.

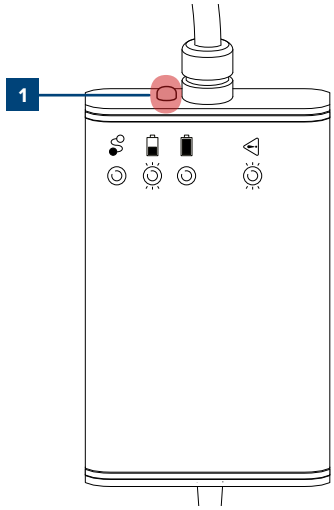
Battery charger (MCWCB optional kit)



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)

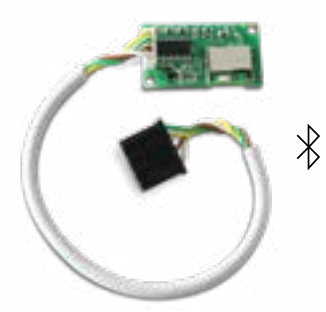


The LED of the MCWCB-1 charger is described below:

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
BLUETOOTH	Internal Bluetooth interface. For wireless connection of the scale to tablets, smartphones, laptop PCs 
WIFI	Internal WiFi interface. For wireless connection (via access point) to the company computer system 
RADIO MODULE	Internal radio interface. For wireless connection to PC or other Dini Argeo instruments (e.g. repeaters) 

Component	Description and Image
ALIBI MEMORY	Alibi Memory (fiscal memory, max. 120,000 weighings) for approved weight transmission to PC 
DATE AND TIME CARD	Calendar clock for printing/displaying the date and time 
BATTERY AND CHARGER KIT	Kit for 24/7 continuous use. Consisting of removable battery, charging device with status indicator light, power supply and locking screws to be added to the battery supplied with the suspended crane scale. 
BELLS	

Component	Description and Image
THERMAL PRINTER	Thermal printer integrated in the suspended crane scale, complete with connection cable and power supply from instrument. 
HIGH-BRIGHTNESS DISPLAY	40mm display with super-bright red SMD LEDs. For “MCW...R2” models. Includes kit for 24/7 continuous use, consisting of removable battery and charger. 

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 in its cardboard packaging 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 packaging 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

WARNING
Take care when handling the packaging 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	18 kg	19 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

Follow the installation steps below:

A. Open the cardboard box containing the electronic suspended crane scale.
B. Install the “shackle” on top of the load cell.
C. Install the hook on bottom of the load cell.
D. Make sure that the nut of the shackle is fully screwed on and that the split pins is correctly positioned.
E. Make sure that the shackle is screwed on firmly.
F. Carefully place the system on the ground.
G. Make sure and check the suitability of the crane hook where the electric suspended crane scale will be installed.
H. 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.
I. Once the system has been harnessed, move away and lift it a few centimetres from the ground.

WARNING
Take care when handling the packaging 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 shackle need to be replaced, contact an Authorised Assistance Centre.

COMMANDS

Control panel indicators



Pos.	Icon	Description
1	-	This indicates the presence of mains power.
2	-	6-digit display.
3	-	Radio remote control reception point.

Control panel keys



Key	Description
	• Resets the weight value on the scale. • In number entry mode, it decrements the digit to be changed. • If pressed for a long time (2 sec), it allows you to set the brightness of the display.
	• Performs tare on the scale. • In number entry mode, it increments the digit to be changed. • If pressed for a long time (2 sec) it allows you to insert a preset tare.
	• Recalls the function specific to the operating mode. • In number entry mode, it selects the digit to be edited. • If pressed for a long time (5 sec) it allows you to change the operating mode.
	• Print the receipt. • In number entry mode, it confirms that the input has been executed. • If pressed for a long time (5 sec) it allows you to enter the configuration menu.
	• If pressed for 2 seconds, it turns the instrument off/on. • In number entry mode, it resets the digit entered. • If pressed for 5 sec it shows 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 FUNCTIONS OF THE SCALE”.

Display



Pos.	Icon	Description
1	→0←	Indicates that the scale is unloaded and at zero (gross).
2	~	This 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		This indicates the battery level:
8	Max= Min= e=	Metrics are displayed.
9	LT	A tare has been blocked.
10	PT	A manual tare is active.
11	W1 W2 W3	They indicate the active weighing range.
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 indicates that a key has been pressed. In some operating modes, this indicates that a specific function is active.

Remote control



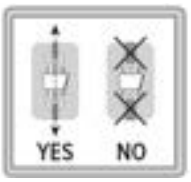
Key	Description
	• To select the desired function. • If held down, the brightness of the display changes.
	• C key or stand-by function if held down.
	• To enter digits.
	• Tare key or increase of the digit when entering a value.
	• Mode key or move cursor to the right while entering a value.
	• Print or confirm key.
	• Not managed.
	• Not managed.

NOTE: Infrared remote controls are for internal use only.

USE

General warnings for correct use



















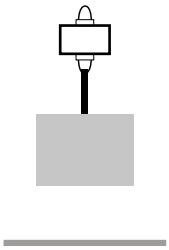
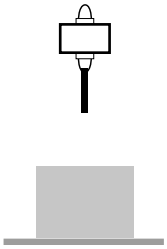
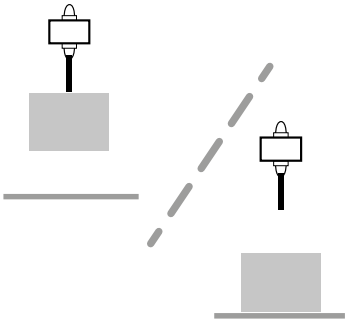






IMPORTANT
Refer to the “Suspended crane scale safety and maintenance manual” for safety warnings.

Suspended crane scale conditions

Condition	Description
	The suspended crane scale is on and the load is in position raised from the ground.
	The suspended crane scale is on and unloading.
	In this condition it does not matter whether the suspended crane scale is loading or unloading.

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/hook;
- check the status of the crane;
- check nuts and split pins.

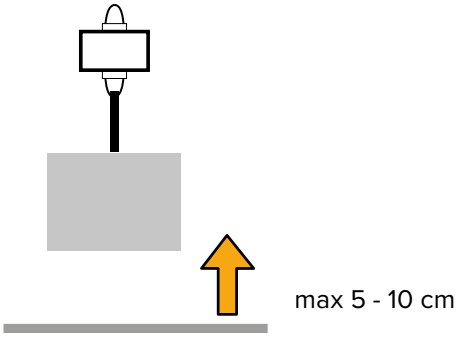
IMPORTANT
If faults and/or anomalies are detected, report them to the personnel in charge.

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.

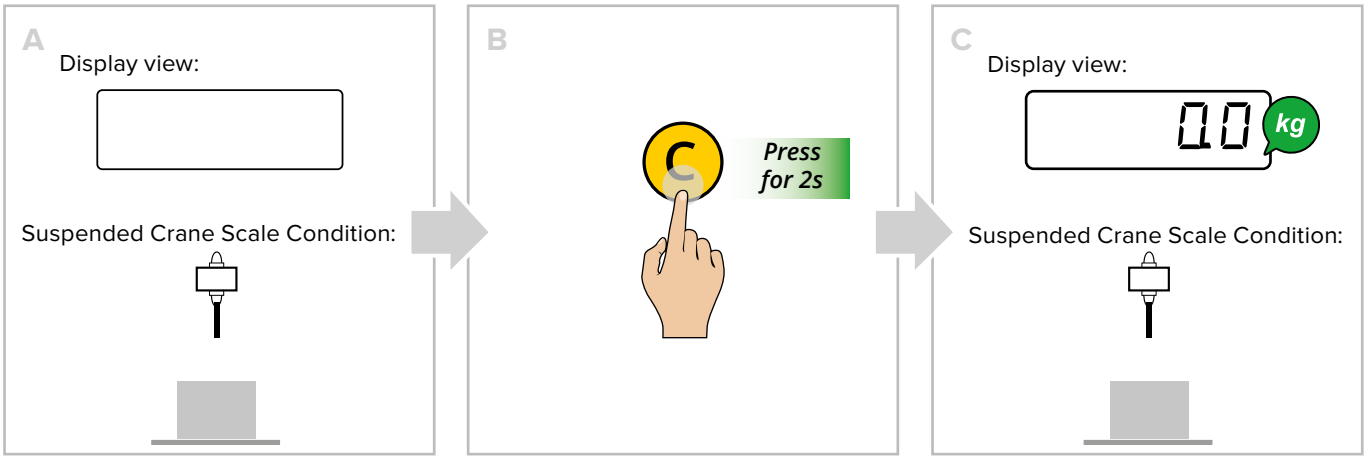


Weighing accuracy is achieved when the suspended crane scale is fully stationary.

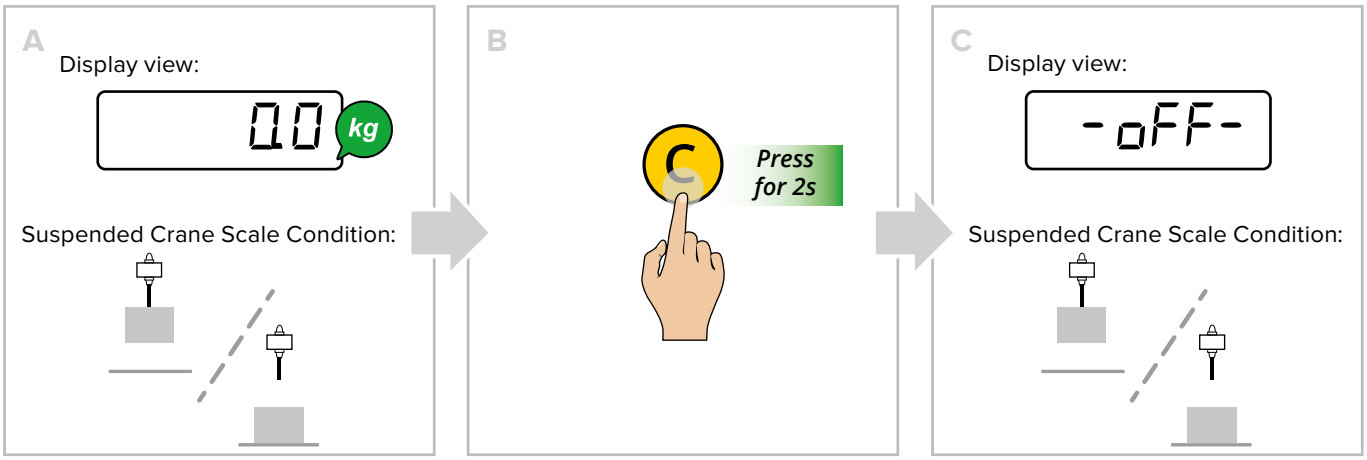
WARNING
Make sure the load is fully raised from the ground.

BASIC SCALE FUNCTIONS

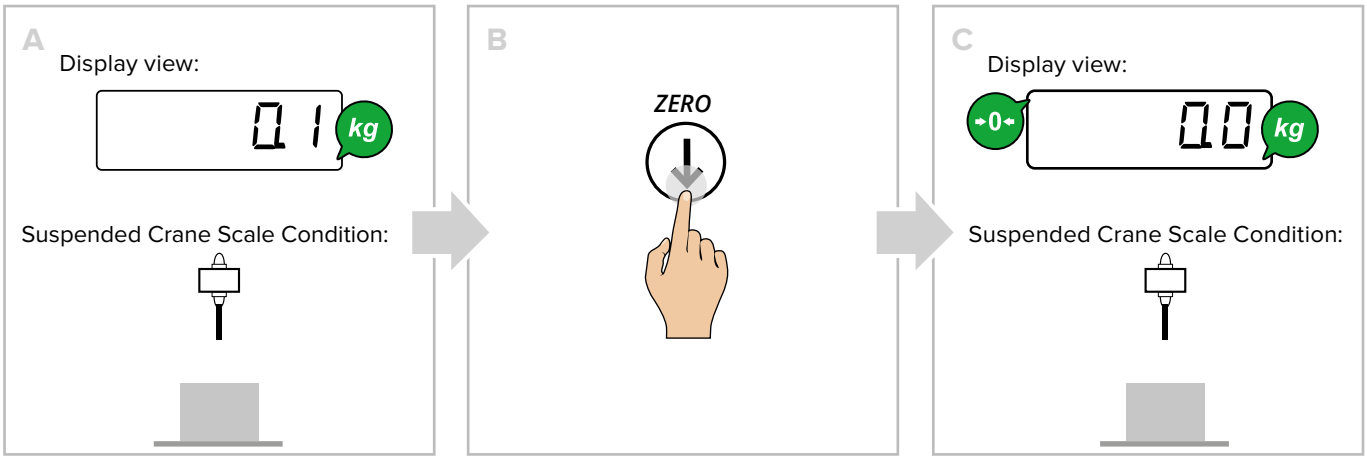
Switching on



Switching off



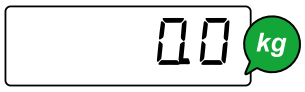
Zero



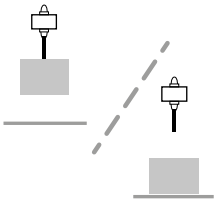
Adjusting the display brightness

A

Display view:



Suspended Crane Scale Condition:

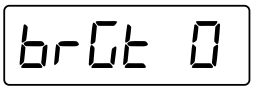


B



C

Display view:



Suspended Crane Scale Condition:

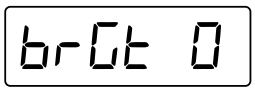
- Increase value
- Decrease value
- Confirm

D



E

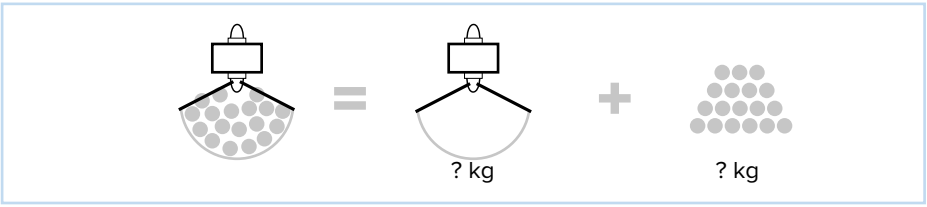
Display view:



Suspended Crane Scale Condition:

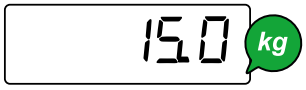
- Increase value
- Decrease value
- Confirm

Automatic tare

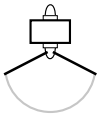


A

Display view:



Suspended Crane Scale Condition:

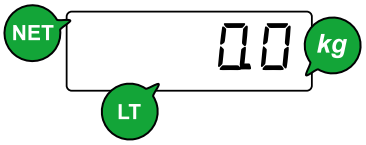


B

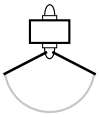


C

Display view:

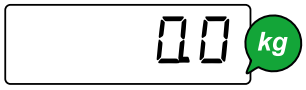


Suspended Crane Scale Condition:

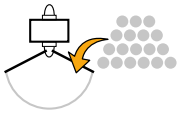


D

Display view:

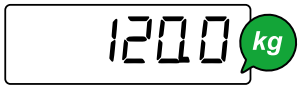


Suspended Crane Scale Condition:

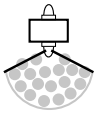


E

Display view:



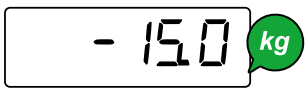
Suspended Crane Scale Condition:



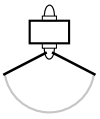
Clearing the tare

A

Display view:



Suspended Crane Scale Condition:

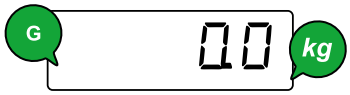


B

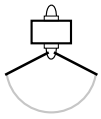


C

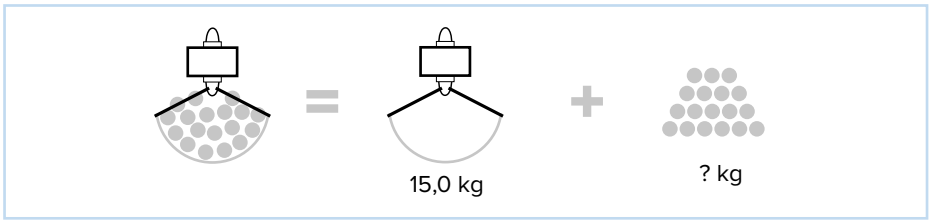
Display view:



Suspended Crane Scale Condition:

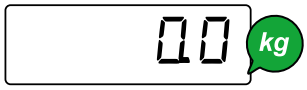


Setting a known tare value (PT)

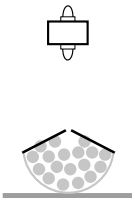


A

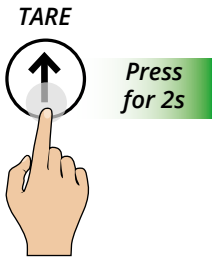
Display view:



Suspended Crane Scale Condition:

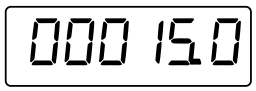


B



C

Display view:



Setting the tare value:

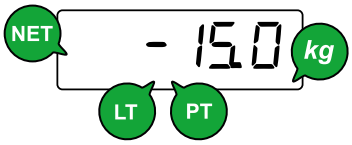
Increase / decrease the value

D

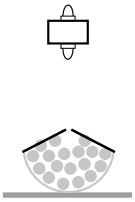


E

Display view:

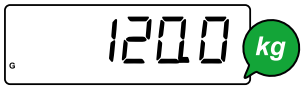


Suspended Crane Scale Condition:

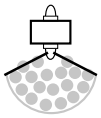


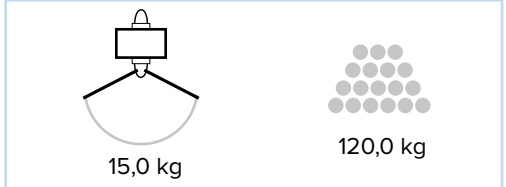
F

Display view:



Suspended Crane Scale Condition:



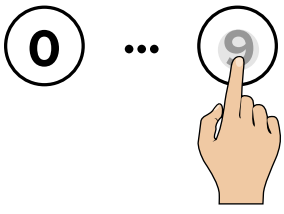


i

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

A

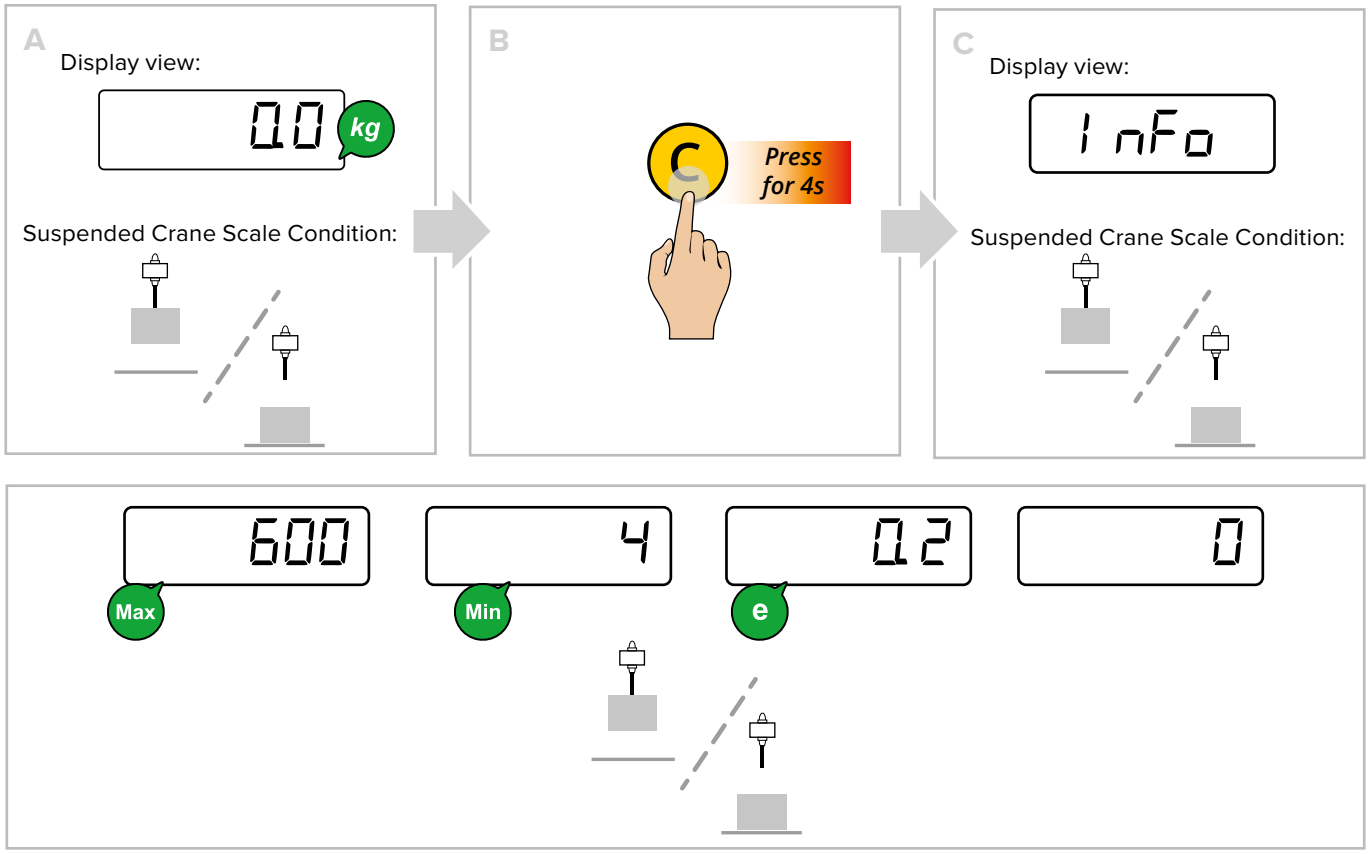
Enter the tare value:



B

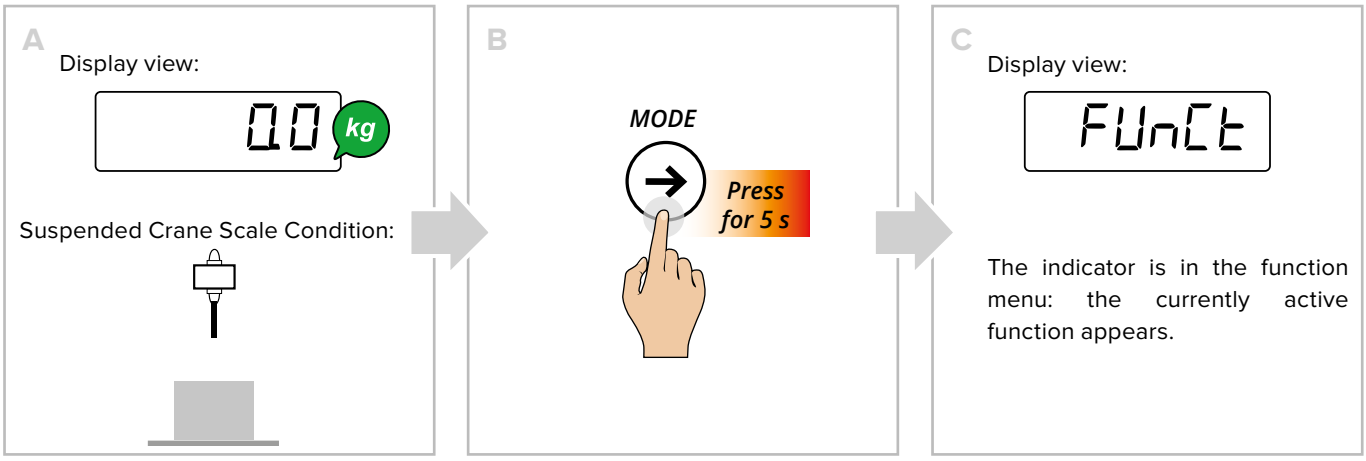


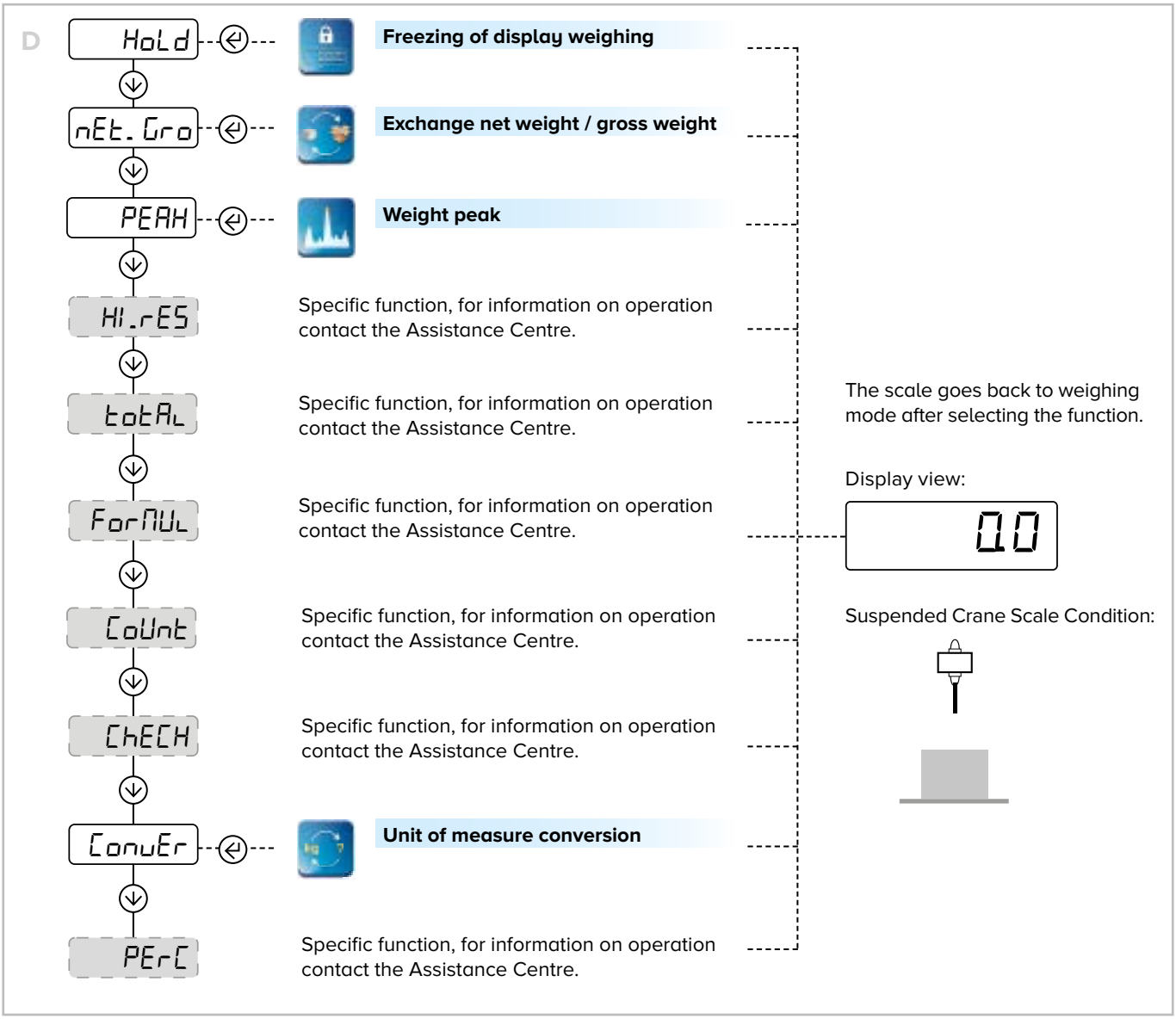
Metric information



ADVANCED FUNCTIONS OF THE SCALE

How to enter the functions menu

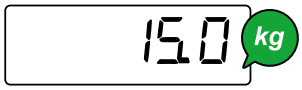




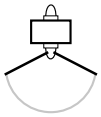
Exchange between net weight and gross weight

A

Display view:



Suspended Crane Scale Condition:

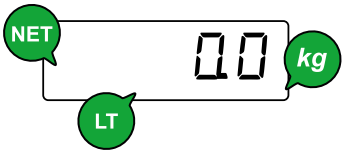


B

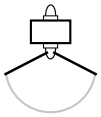


C

Display view:

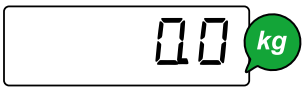


Suspended Crane Scale Condition:

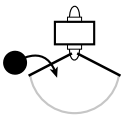


D

Display view:



Suspended Crane Scale Condition:

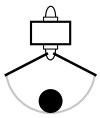


E

Display view:



Suspended Crane Scale Condition:

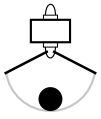


F

Display view:



Suspended Crane Scale Condition:

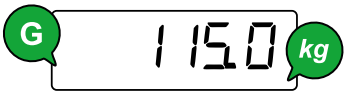


G

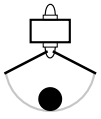


H

Display view:



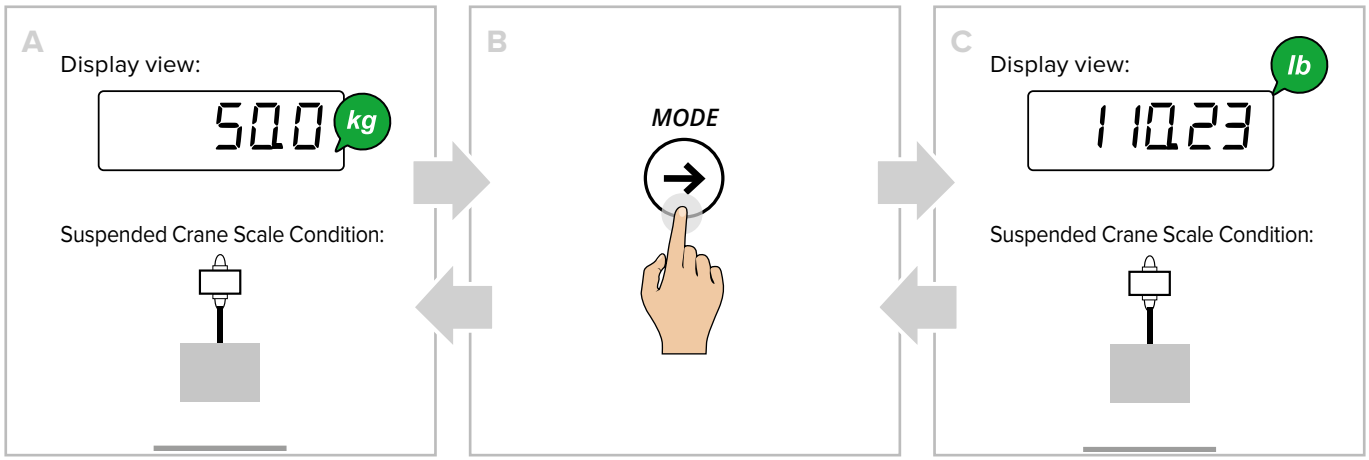
Suspended Crane Scale Condition:



i By pressing MODE at any time, you can change from net to gross weight.

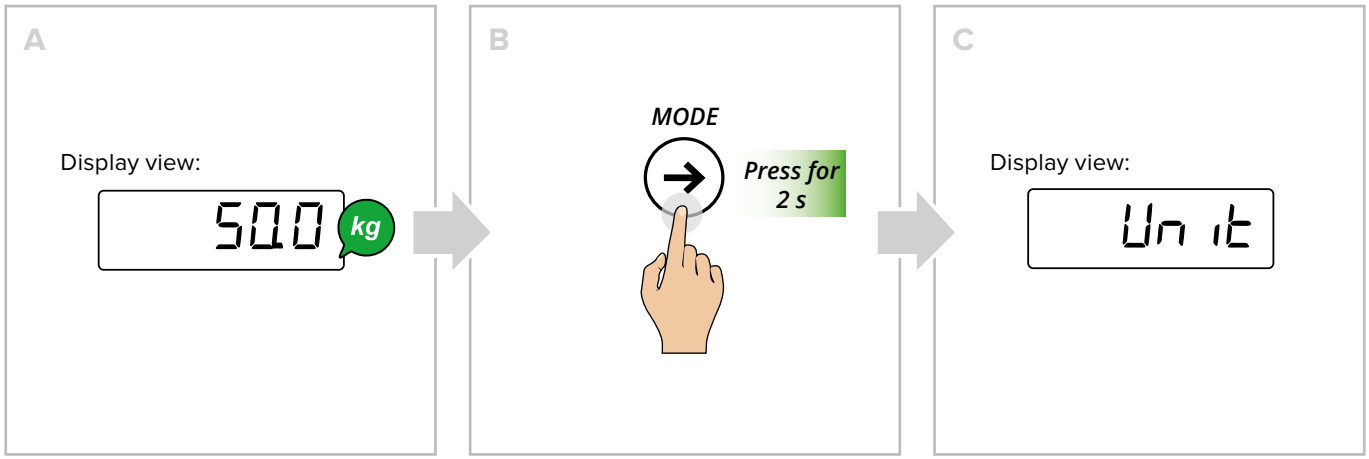
Unit of measure conversion

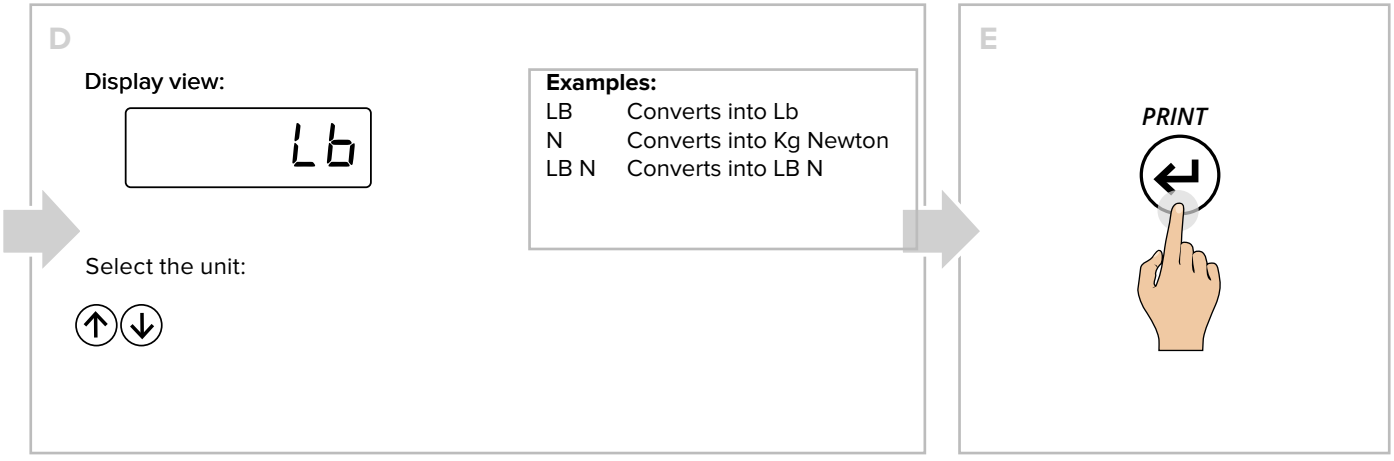
HOW TO CONVERT THE UNIT OF MEASUREMENT TO POUNDS (STANDARD MODE)



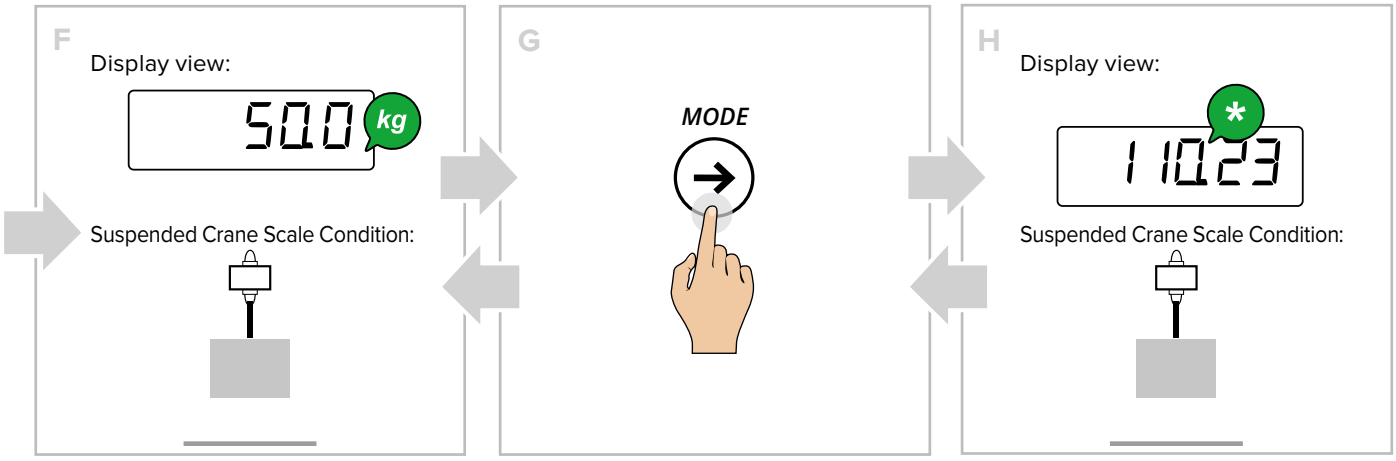
i By pressing MODE at any time you can switch from weight in kg to weight in pounds.

HOW TO CONVERT THE UNIT OF MEASURE WITH FREE CONVERSION FACTOR





proceed

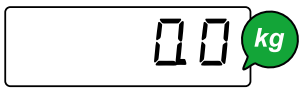


By pressing MODE at any time, the unit of measurement can be converted with a free conversion factor.

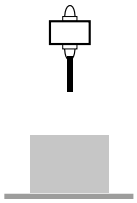
Freezing of display weighing

HOW TO ENABLE THE FUNCTION

A
Display view:



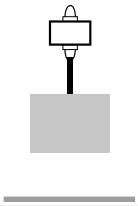
Suspended Crane Scale Condition:



B
Display view:



Suspended Crane Scale Condition:



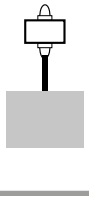
C



D
Display view:



Suspended Crane Scale Condition:



E
Display view:



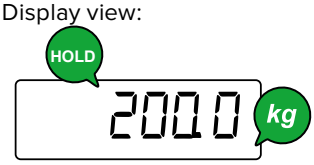
Suspended Crane Scale Condition:



The weight on the display remains frozen even when the scale is empty.

HOW TO DISABLE THE FUNCTION

A
Display view:



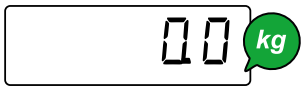
Suspended Crane Scale Condition:



B



C
Display view:



Suspended Crane Scale Condition:

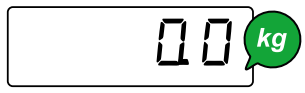


Weight peak

HOW TO ENABLE THE FUNCTION

A

Display view:



Suspended Crane Scale Condition:



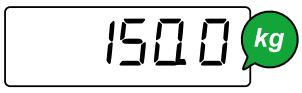
B



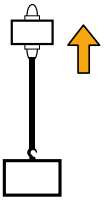
The display shows PEAK every 5 seconds, during which the largest recorded weight is displayed on the screen.

C

Display view:



Suspended Crane Scale Condition:

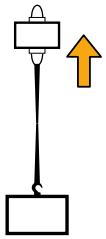


D

Display view:



Suspended Crane Scale Condition:



E

Display view:



Suspended Crane Scale Condition:

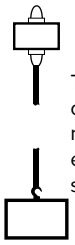


F

Display view:



Suspended Crane Scale Condition:



The weight on the display remains frozen even when the scale is empty.

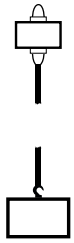
HOW TO DISABLE THE FUNCTION

A

Display view:



Suspended Crane Scale Condition:

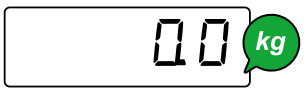


B

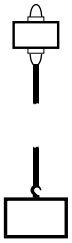


C

Display view:

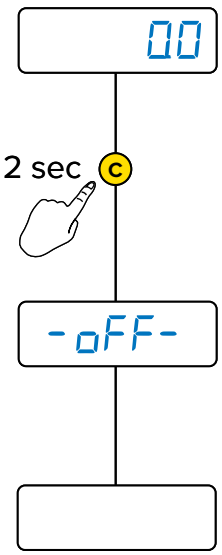


Suspended Crane Scale Condition:

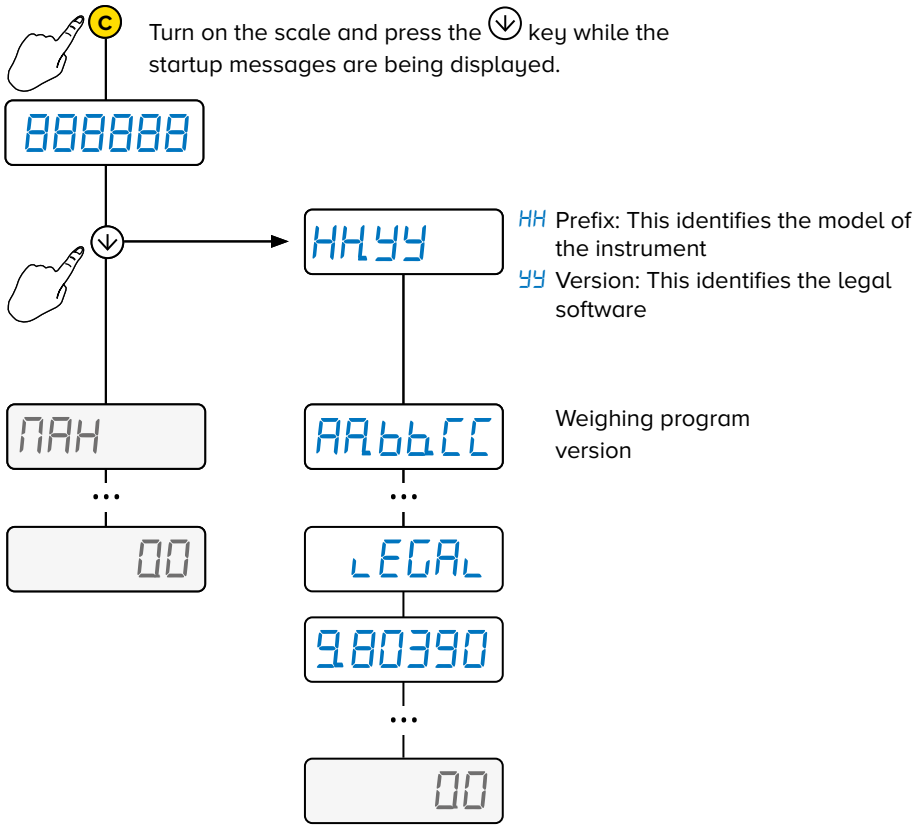


METROLOGICAL SCALE INFORMATION

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 set the tare**	• The weight is unstable (UnStAb) • The gross weight is negative (Lo-) • The weight is not sufficient • The weight exceeds the maximum capacity • The tare function has been deactivated • In case of manual tare, the value exceeds the maximum capacity
WEIGHING	**The scale does not turn on**	• Check the correct connection of the battery. • Replace the batteries and try again. If the instrument is still malfunctioning, contact your dealer.
	The scale suddenly switches off	• Auto power off active • Low battery • Power line failure
	The scale is not reactive	• One of the available energy saving modes has been activated • An unsuitable weighing filter has been selected
	The display of the scale turns off and shows a dot	• Standby mode is active: press a key to reactivate weighing. • Energy saving is active, contact your dealer for more details.
	The scale displays the message "2Ero" permanently	• The scale cannot automatically zero the weight because the weight exceeds the maximum weight that can be zeroed at power-up. • 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	• 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
UnStAb	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.
LoU	The net or gross weight is negative or insufficient for printing	Add weight and try again.
UndEr	Underload	Load the scale and restore a valid weight condition. If the problem persists, contact customer service.
ouEr	Overload	Unload the scale and restore a valid weight condition. If the problem persists contact service.
no. 0. UnS	The scale was not unloaded after the last printing	Completely unload the scale, making sure the warning light →0← comes on. Reload the weight and try again.
Err. Not	The weight is unstable	Wait for stability (the ~ indicator appears) and try again.
Error	In counting mode the weight is not sufficient for proper sampling.	Increase the number of pieces and try again.

Notes

This publication, or any part of it, may not be reproduced without written permission from the Manufacturer. All information in this manual is based on the data available at the time of its publication; the Manufacturer reserves the right to make changes to its products at any time, without notice and without incurring any penalty. We therefore recommend that you always check for updates.

The individual in charge of suspended crane scale operation must ensure that all safety regulations in force in the country of use are applied, ensuring that the appliance is used in accordance with the purpose it is intended for and to avoid any danger for the user.

The Manufacturer declines all responsibility for any weighing errors.

DINI ARGEO
Scales - Weighing systems

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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.

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Rev. 19.07.2023