

MODULAR WEIGHBRIDGES

WBSAA-1

SERIES



INSTALLATION AND OPERATING MANUAL

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1. GENERAL INFORMATION



WARNINGS

Once found the suitable place for installing the platform, make sure that it is convenient for the subsequent weighing operations.

When choosing the suitable place one must keep in mind the space necessary for installing the platform itself.

The connection cable from the junction box to the indicator should be protected with metallic raceways and should be chased.

Do not install the cables of the load cells near the electric cables which are conducive of high and/or medium voltage; this could cause disturbances to the weight visualisation. It is advisable to predispose a protected line only for the cell cables.

Make sure that the platform is level.

Do not weld, perforate or modify the structure without consulting the reseller. If it is damaged or tampered with the warranty conditions will be annulled.

If the place of use is a humid or wet environment, the installation **must** be carried out in such a way so that water stagnation and/or scraps under the structure are **avoided**.

The platform must be connected to a weigh indicator using the fitted cable, following the indicator's instructions.

Do not step, crush or expose to sunlight the connecting screen cable.

GROUND the metallic structure of the platform.

DO NOT INSTALL IN HAZARDOUS ENVIRONMENTS.

(unless specifically made for this use)

Do not use solvents when cleaning.

Do not load the platform surface with loads greater than its maximum capacity.

One should avoid the transversal weighing and/or transit on the platform; not observing this may cause the warping of the platform.

Avoid having objects or materials fall on the platform.

Eventual weighs of loads without wheels (loose materials, containers, etc...) must be made without knocks or draggings on the platform.

Avoid having materials or corrosive liquids fall on the scale platform.

Predispose the indications and safety precautions requested by the laws in force in regards to safety on the workplace.

APPLICATION OF THE LOAD

- Put the preset foundation plates of the load cells on a flat and horizontal support area.
- Make sure that the load direction is vertical towards the bottom.
- Do not have the load cells be subject to other forces besides the compression force.
- Make sure that no load cell is partially or totally lifted up.
- Avoid, or lessen the lateral forces.
- Avoid the torsion effects.

1.1 INTRODUCTION

Dear Customer,

We thank you for choosing a Dini Argeo product and we invite you to carefully read this manual before carrying out any operation on the instrument that you have purchased.

NOTE:

THE MANAGER OF THE SYSTEM MUST ENSURE THAT ALL THE SAFETY RULES HAS APPLIED AND GUARANTEE THAT THE SYSTEM IS USED IN ACCORDANCE WITH THE MANUFACTURE'S SPECIFICATION. THE MANAGER MUST BE AVOID ANY HAZARDOUS SITUATION FOR THE USER AND THESE PEOPLE AT WORK.

ANY ATTEMPT TO TAMPER OR MODIFICATION OF THE SYSTEM BY THE USER OR FOR UNAUTHORIZED PERSONNEL AND 'IMPROPER USE OR ANY OTHER THAN THOSE PROVIDED HEREIN, DECLINES THE MANUFACTURER FROM ALL LIABILITY 'IN CASE OF DAMAGE TO PERSONS OR THINGS.

1.1.1. ESIGNATION OF THE MACHINE AND MANUFACTURER DATA

The "WBSAA-1" are modular weighbridges of new generation, for mounting on the street level.

Suitable for the weighing of vehicles of any type, are particularly suitable for industrial and commercial agriculture, thanks to a supporting structure consists of reinforced steel beams and a sturdy metal lobed slip load of thick, which ensures extreme rigidity each type of medium.

The transduction system consists of load cells double-edged approved EN45501, IP68, Class C3, oscillating ball joints with self-centered to compensate for thermal expansion and ensure safe and accurate weighing over time.

Designed and built with the highest quality materials, the WBSAA-1 represent an effective solution in terms of cost savings and space usage.

The WBSAA-1 have also inspected the hatches for maintenance of the load cells and can be connected to a wide range of weight indicators DINI ARGEO

In relation to the types of vehicles to be weighed and the intended use, you can choose the model of the weighbridge according to different capacities and sizes available: 9m(30.000/50.000 kg), 14m(30.000/60.000 kg), 18m(30.000/60.000 or 60.000/80.000 kg)

This manual takes into account the various types.

MANUFACTURE'S DATAS:

DINI ARGEO srl – via della Fisica , 20 - 41042 Spezzano di Fiorano (MO) - Italy

Tel. 0536-843418 Fax 0536-843521 E-mail info@diniargeo.com web www.diniargeo.com

1.1.2. PREMISES

BEFORE ANY OPERATION ON MACHINERY OPERATORS AND TECHNICAL SHOULD READ THE FOLLOWING INSTRUCTIONS CAREFULLY AND FOLLOW DURING THE EXECUTION OF ANY ACTION.

The purpose of this manual is to inform the user all the basic criteria and requirements for installation, the proper use and implementation of proper maintenance of the system purchased.

Then:

- This manual contains instructions for using the system and the knowledge necessary for a safe and correct use of the same.
- This manual provides useful information for the proper operation and maintenance of the system to which it refers, it is therefore essential to be careful to refer to all those sections that illustrate the most simple and safe to operate
- The safety of the plant operator is entrusted in the first person that we believe should have detailed knowledge about it.
- The equipment must be installed only by qualified personnel who must have read and understand this manual.
- Ensure that this manual is always available at the place of the use of the system.

- This publication or parts of this manual, may NOT be reproduced without written authorization from the manufacturer.

1.1.3. SYMBOLS

Here are the symbols used in the manual to draw the operators' attention to the various levels of danger. The levels of danger are split-up into four classes of importance:



DANGER !!



Concept or procedure which, if it is not carried out accurately, could cause death or serious personal injuries in the case of accidents.



WARNING !!



Concept or procedure which, if it is not carried out accurately, could cause slight personal injuries or damages to the instrument in the case of accidents.



CAUTION !!



Concept or procedure which, if it is not carried out accurately, could cause damages to the instrument or materials next to it in the case of accidents.



WARNING: Important information or procedure that advises the operator on the best way to use the system and on all the related working methods.

1.1.4. GENERAL PROVISIONS

The warnings indicated in this manual aim at drawing THE OPERATOR'S ATTENTION to information or procedures that advise how to use the equipment in the best way to:

- Work in safety.
- Extend its life and efficiency.
- To avoid damages.
- To optimise work, bearing in mind metric and safety standards in force in the country of use;



The "DTW" weigh bridge shall be used exclusively as a weighing instrument. Therefore, any improper use or use different to that intended in this manual, relieve the manufacturer from all forms of responsibility with regard to direct or indirect injuries to persons or damages to property.

For further information on warnings and prohibitions to work in safety, please read section "GENERAL SAFETY INSTRUCTIONS".

1.1.5 USES PERMITTED AND USES NOT PERMITTED

The WBSAA-1 weighbridges are suitable for weighing road vehicles of any kind.

The weighing system consists of multiple load cells, from 6 to 10, depending on the length of the bridge.

The visualization of weight and other associated functions are carried out by electronic indicators that can be connected to the weighing platform.

In any event NEVER exceeded the maximum capacity of the system indicated on the weighing instrument.

Any other use not specified in this manual, unless expressly authorized by Dini Argeo, is NOT ALLOWED

The inobservance of the indications contained in this manual causes the decline of the warranty.

2. “WBSAA-1” MODULAR WEIGH BRIDGE: DESCRIPTION AND INTENDED USE

The modular weigh bridges of the “WBSAA-1” series are metal platforms made using materials that guarantee an ideal solution for weighing road vehicles.

Low height from the plan of support, the weigh bridge can be installed at flush with the road surface.

The measuring element consists of a detection system with load cells double shear-beam approved EN45501, IP68, Class C3, complete with ball joints swivel chucks, to compensate for thermal expansion, ensuring safe and precise weighing over time.

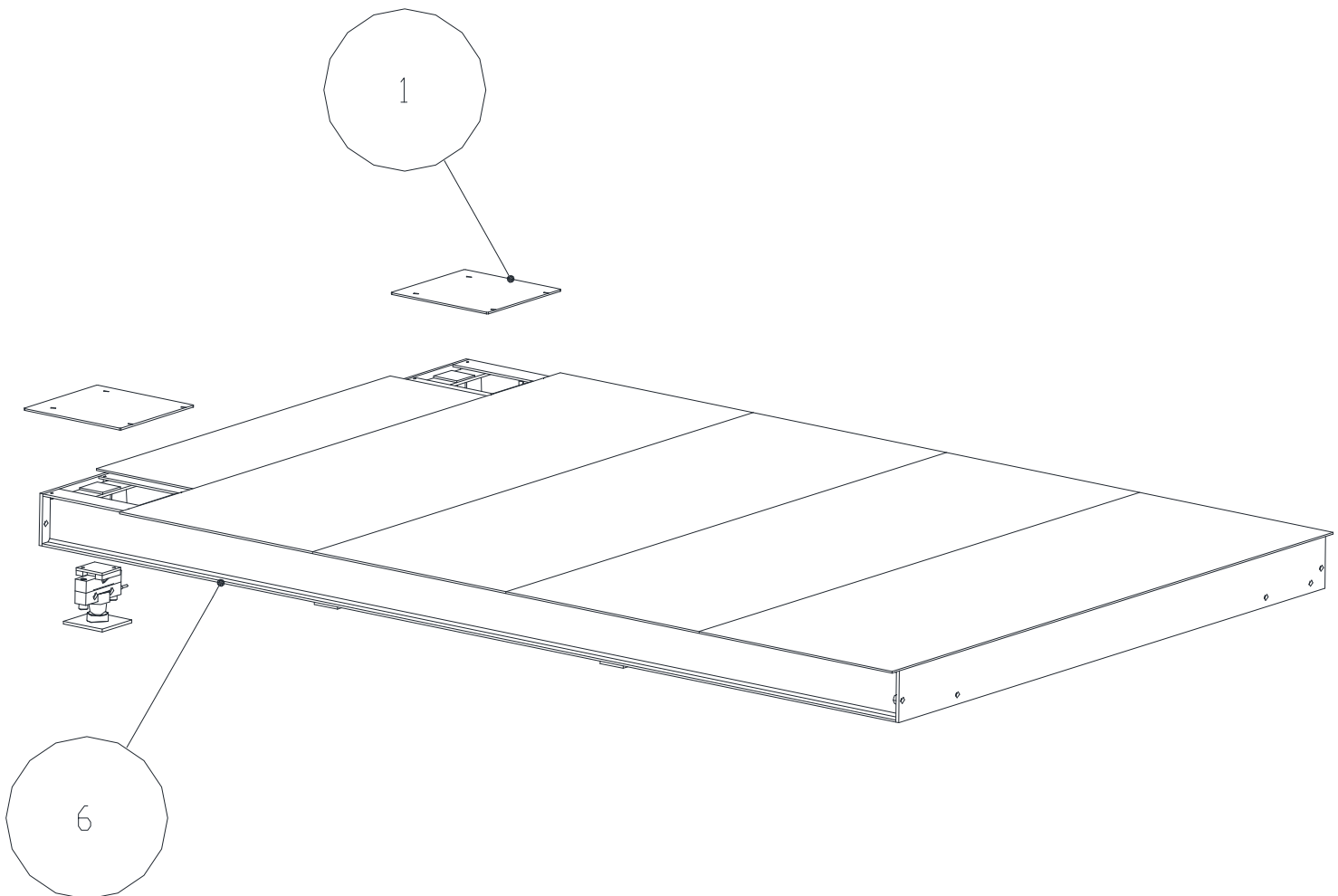
Finally, the “WBSAA-1” weigh bridges can be connected to a weight indicator of the Dini Argeo range in both the “single scale” and “multirange” version.

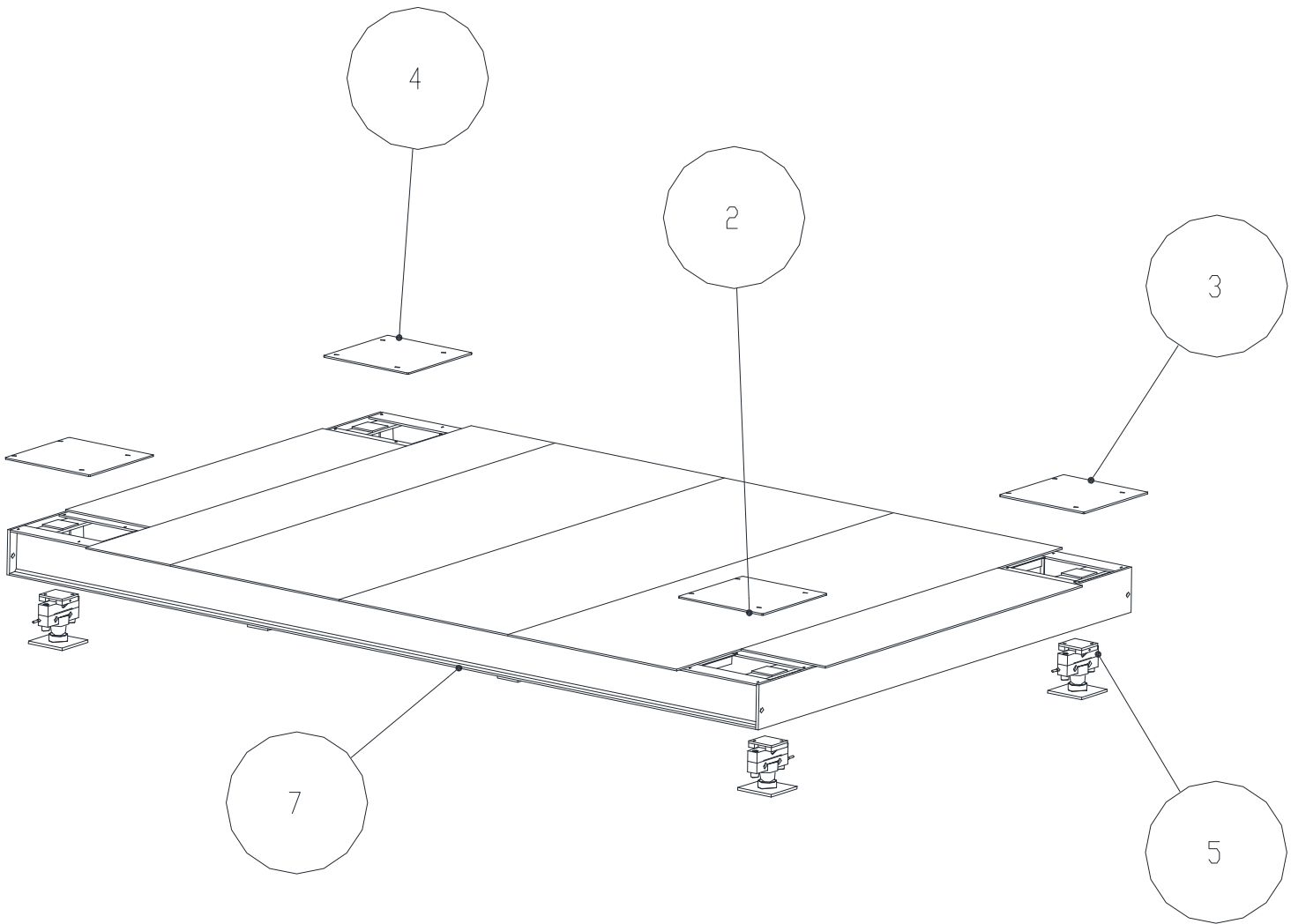
Dini Argeo, thanks to the wide range of weight indicators that can be connected, even battery-operated ones which enable you to use the weigh bridge without the electrical power supply, is able to offer valid solutions for all types of applications.

2.1 TECHNICAL SPECIFICATIONS OF THE WEIGHING SYSTEM

2.1.1 MAIN PARTS

To make this manual easily comprehensible, below is an illustration and list of the main parts of the “WBSAA-1” weigh bridge.





Referring to the drawing above, you will notice the following:

- **1: TRAP A;**
- **2: TRAP B;**
- **3: TRAP C;**
- **4: TRAP D;**
- **5: DOUBLE SHEAR-BEAM IP68 LOAD CELLS SERIES “RSB”;**
- **6: BRIDGE TAIL WITH 2 TRAP;**
- **7: BRIDGE HEAD WITH 4 TRAP;**

NOTE: to clarify the illustration, the main parts of just a track of the WBSAA-1 bridge are indicated.

Seeing as the “WBSAA-1” weigh bridge is a type-approved system, any spare parts needed are not supplied directly to the end users. Parts of the system can only be replaced if necessary by a specialist of the manufacturer whilst servicing the system.

2.1.2 TECHNICAL SPECIFICATIONS OF THE SYSTEM PARTS

LOAD CELLS



MAIN SPECIFICATIONS:

- Model: DOUBLE SHEAR BEAM RSB.
- Material: STAINLESS STEEL 17-4 PH
- PROTECTION RATING IP68.
- Power supply voltage: da 5 a 18 Vdc.
- Precision and repeatability compliant with recommendations of OIML R60.
- Maximum number of divisions of load cell: nLC = 3000(C3)
- Sensitivity: 2mV/V +/-0,2%.
- Input resistance 700 +/- 7 Ohm.(*)
- Output resistance 700 +/- 7 Ohm.(*)
- Compensazione termica -10°C / +40°C.

JUNCTION BOX

MAIN SPECIFICATIONS:



- Model: JB10Q
9m (1 BOX), 14m (1 BOX), 18m (1 BOX)
- Material: Case in ABS.
- DIMENSIONS: 120x80x55mm (LxWxH)

PIATTAFORMA (PONTE)

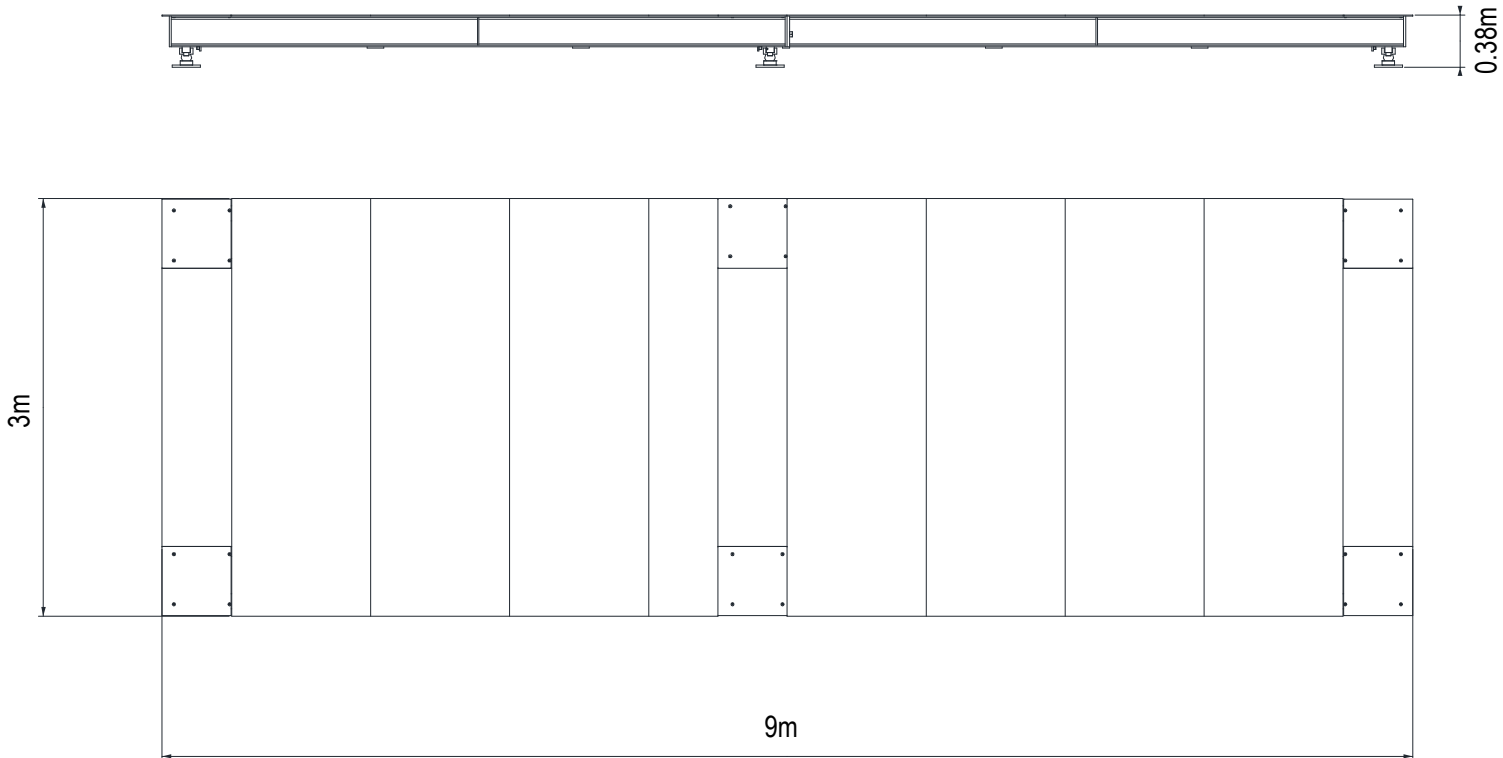
PRINCIPALI CARATTERISTICHE:



- Bearing structure formed by reinforced steel beams.
- Sturdy load surface in very thick antislip sheet steel.
- Anticorrosive treatments and high-resistance painting.
- Inspected trapdoors for cells maintenance.
- Reduced height (up to 0,38 mm from the resting surface).

2.1.3 OVERALL DIMENSIONS

DIMENSIONS OF THE WEIGHING MODULE (BRIDGE)



NOTE: All dimensions are in m.

2.1.4 VERSIONS OF “WBSAA-1” MODULAR WEIGH BRIDGES

The “WBSAA-1” weigh bridge consists of a series of module (bridges) of the same size; however the total length of the system will depend on the total number of modules making it up.
 For further information on the versions, dimensions, composition and load-bearing capacities available of the “WBSAA-1” weigh bridge, consult the table that follows.

TABLE OF “WBSAA-1” WEIGH BRIDGE VERSIONS

WEIGH BRIDGE VERSION	DIMENSIONS LxDxH (m)	TOTAL CONTENT	CAPACITY (kg)	DIVISION CE – M2 (KG)
WBSAA9-1	9x3x0,37 m	2 bridges – 6 load cells	30000/50000	10/20
WBSAA14-1	13,5x3x0,37 m	3 bridges – 8 load cells	30000/60000	10/20
WBSAA18-1	18x3x0,37 m	4 bridges – 10 load cells	30000/60000(**)	10/20

() Capacity 60000/80000 kg upon request**

3. GENERAL SAFETY INSTRUCTIONS

Before you commission the weigh bridge and whenever you use it, you must make sure all the instructions of the manufacturer written in this manual are observed. It is also very important to bear in mind and observe legal standards currently in force in the country in which the system is used, concerning safety and accident prevention and “metrology”.

3.1 GENERAL WARNINGS

- Strictly observe all the provisions concerning the installation, use and workplace of the system.
- Do not load vehicles or other loads on the platform that exceed the nominal load-bearing capacity of the weigh bridge.
- Do not allow unauthorised personnel to work on the “WBSAA-1” weigh bridge or on any device connected to it.



The “WBSAA” weigh bridge must be used exclusively as a weighing instrument. Consequently any improper use or use different to that stated in this manual, relieves the manufacturer from all forms of liability with regard to personal injuries or material damages.

3.1.1 ORGANISATIONAL MEASURES OF THE CUSTOMER

To install and use the system in the best way possible, the customer must observe the following indications and provisions:

- The “WBSAA-1” weigh bridge is to be considered as a weighing device to all intents and purposes and as such must be used exclusively as a weighing instrument.
- Observe the safety measures established by the manufacturer of the weighing system and the legal standards in force in the country in which the system is used.
- Have the system installed, commissioned, serviced and repaired exclusively by specialists, who must have read and understood this manual in advance (see section “MAINTENANCE AND REPAIRS”).
- Only allow expert and trained personnel to use the system, who we believe should have experience and detailed knowledge on how to use modular weigh bridges.
- It is strictly FORBIDDEN for unauthorised personnel to access the operational zone.
- This manual must always be at hand where the system is used.
- In the case of anomalies on components or accessories of the system, use just original spare parts.
- All connections of the system must be completed pursuant to applicable standards in the installation zone and workplace.
- Install the safety warning signs and protection systems requested by current legal standards concerning safety at the workplace.
- If any anomalies are noticed whilst using the “WBSAA” weigh bridge, stop working IMMEDIATELY and do not use the instrument until it has been specifically inspected and tested by specialised and authorised personnel or by personnel of the service department of Dini Argeo.



Incorrect use, even if reasonably foreseeable, by untrained personnel involves an unacceptable residual risk.

3.1.2 INDICATIONS AND PROHIBITIONS CONCERNING THE “WBSAA-1” WEIGH BRIDGE”

To install and use the system perfectly, the customer’s personnel **MUST** observe the following indications and provisions:

- The “WBSAA-1” weigh bridge” must be used exclusively for the designed purposes.
- It is strictly **FORBIDDEN** to exceed the nominal load-bearing capacity of the system.
- Make sure the system is perfectly level and that all its parts are installed correctly.
- All the weighing phases must be carried out positioning the load properly on the weigh bridge.
- Avoid accelerating or braking the vehicle abruptly on the platform while driving up and down it and when positioning it.
- Loads without wheels (loose material, containers etc..) must be weighed making sure not to knock the platform and not to drop the weights off the platform.
- Do not weld, drill or modify the structure in any part without consulting the vendor. Feasible damages or tampering annul the warranty conditions.
- Periodically check the integrity of all parts of the system (see chapter “MAINTENANCE AND REPAIRS”).
- Do not install the platform near electrically conductive cables (high and/or medium voltage); this could cause disturbance in the weight display. You are recommended to prepare a protected line just for the platform’s cables.
- Do not stand on, squash or expose to heat, any of the shielded connection cables of the system.



WARNING!!



To safeguard personnel and the driver of the vehicle when positioning and/or moving the vehicle transversally on the weighing system, in the elevated versions, the weigh bridge must be equipped with side protection devices (walkways, guard-rails, New Jersey guards etc..).

Any protective devices used (not supplied) must be secured to building work so as not to interfere with the structure of the weighing system.

3.1.3 INSTRUCTIONS AND PROHIBITIONS TO BE OBSERVED TO ENSURE SAFE WORKING CONDITIONS

To guarantee optimum conditions of safety for the user of the “WBSAA-1” weigh bridge” and any other personnel working near it, the following instructions must be observed:

- It is strictly **FORBIDDEN** for unauthorised personnel to access the work zone.
- Do **NOT** exceed the nominal load-bearing capacity of the system.
- Do **NOT** use the weigh bridge to weigh radioactive or loose material.
- Do **NOT** vary or modify the system in any way.
- Do **NOT** use solvents or industrial chemical products to clean the system.
- Do not subject the weighing bars and all the components of the system to other strain, beyond compression force.
- Make sure no weighing bar is partially or totally raised during the weighing phase.
- Do not let material or corrosive liquids drop on the weighing unit.
- When weighing loads without wheels, it is **FORBIDDEN** to tow or drag them onto the platform.
- Do not remove the system’s earthing connections for any reason whatsoever.
- Maintenance, repairs and cleaning jobs shall be done with the machine stopped at a standstill and disconnected from the power supply sources (electric mains, battery), exclusively by specialised personnel (see section “MAINTENANCE AND REPAIRS”).
- Have jobs such as installation, commissioning, maintenance and repairs carried out exclusively by specialised personnel who must have read and fully understood this manual (see section “MAINTENANCE AND REPAIRS”).
- If you should encounter any anomalies whilst using the “WBSAA-1” weigh bridge”, stop working **IMMEDIATELY** and do not use the instrument until it has been inspected and tested specifically by specialised and authorised personnel or by personnel of the service department of Dini Argeo.

3.1.4 CONDITIONS OF THE WORKPLACE

To guarantee perfect working conditions of the “WBSAA-1” weigh bridge” at the workplace, observe the following instructions:

- Find the best possible workplace to install the platform and make sure there is enough room to ensure safe and easy weighing operations.
- The installation workplace of the system must bear in mind the spaces needed to position the weighing modules.
- The installation workplace of the system must enable protection of the connection cable between the modules and the indicator, via metal raceways built into the floor.
- The installation workplace of the system must enable protection of the system itself via the fulfilment of connections lines dedicated to earthing the weigh bridge.
- Do NOT install the system in workplaces subject to the risk of explosion (unless this is specifically foreseen).
- Do NOT install the system near strong magnetic and electrical fields.
- Do NOT use the system beyond the temperature range of -10 °C at +40 °C.
- Protect the “WBSAA-1” weigh bridge” from damp air, vapours, liquids or dust.
- If the workplace is damp or wet, install in such a way to avoid build-up or stagnation of water and/or debris under the structure.

Furthermore, the choice of the most suitable place of installation and use of the “WBSAA-1” weigh bridge” shall bear in mind the following conditions:

- Flat and levelled support surface.
- Hardness of the floor of at least 100kg/cm².
- No dust or aggressive vapours.
- Moderate temperature and humidity (do not expose to sources of heat).

3.1.5 GLOSSARY OF INSTRUCTIONS AND PROVISIONS

Following the instructions and indications mentioned previously, DINI ARGEO srl is relieved from all forms of liability if the system is used improperly/incorrectly, such as the following cases, for example:

- Improper use of the system or if it is used by untrained or unauthorized personnel.
- Failed use in compliance with specific standards.
- Incorrect installation.
- Defects in the power supply.
- Serious lack of maintenance.
- Unauthorised modifications or other work.
- Use of non-original spare parts or parts that are not specific for the model involved.
- Total or partial failed observance of the instructions given in this manual.
- Exceptional events.

4. OPERATOR MANUAL

4.1 OPERATOR

4.1.1 PROFESSIONAL CHARACTERISTICS

Personnel in charge of using the “WBSAA-1” weigh bridge” and the accessories added to it must:

- Be physically and psychologically fit to use it.
- Be expert, or have sufficient knowledge on using modular weigh bridges and be trained on the correct use of weighing systems.
- Be familiar with the applicable health and safety standards at the workplace.
- Be able to assess the state of safety of the modular weigh bridges and the workplace.
- Understand the safety signs concerning the weigh bridges, as well as the warnings written in this manual and the messages of the instrument in the operational phases, even if not familiar with the language of the country in which it is used.
- Be able to communicate with others at the workplace.
- Be able to create and manage a safe and organised workplace, to guarantee the optimum use of the “WBSAA-1” weigh bridge” and safeguard any person near the system.

4.1.2 POSITION

The operator who uses the “WBSAA-1” weigh bridge is responsible for any accidents that may occur within the working radius of the system. The operator must therefore work in a position that does not represent a danger for himself/herself, for others and for any transport equipment at the workplace.

To facilitate these conditions, the operator must, in particular:

- Stand in a position suitable to supervise the workplace and other operators.
- Always be able to see the vehicle/load and any assistants clearly.

5. DESCRIPTION OF THE MACHINE AND OF THE CONTROLS

To be able to acquire information on how to use the system and on all the controls available on the weight indicator installed with the “WBSAA-1” weigh bridge”, please consult the relevant instructions manual.

6. CONSIGNMENT OF THE “WBSAA-1” WEIGH BRIDGE

6.1 TRANSPORT AND HANDLING

Scrupulously follow the instructions on the packaging.

Stages of transportation and handling must be carried out with particular caution, avoiding collisions and overloads.

6.1.1 TRANSPORT

The movement must be made with the utmost care and attention;

For the handling of weighing modules, you must resort to such means sufficiently adequate for example cranes or bridge cranes.

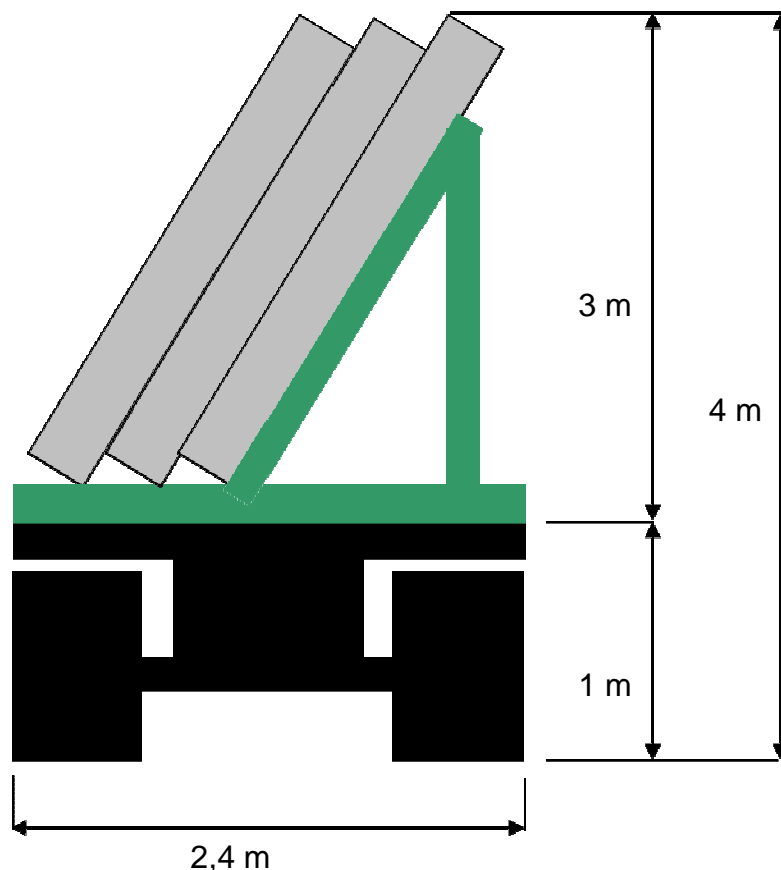
Use for moving (loading and unloading), ropes, chains and hooks adequate and appropriate handling of the modules.



The movement should be undertaken with caution, also avoid accidental shock and overload. (see figure below).

During the transport of the WBSAA-1 weighbridges you must ensure that system components are compressed and superiorly and laterally by any external bodies, one should therefore avoid overlapping materials with higher weight capacities of the platforms, so as not to overload the system.

SHIPPING DIMENSIONS WBSAA-1





The movement should be undertaken with caution, also avoid accidental shock and overload.

6.1.2 HANDLING

The procedure for handling the weighbridge "WBSAA-1", requires special attention during this step, in order to avoid collisions or falls that could cause personal injury and / or system components.

The phases of handling such as loading, unloading and installation of the modules can be made through the use of appropriate means such as:

- Crane bridges;
- Cranes.

All ways of handling the weighbridge WBSAA-1 may be possible thanks to the most powerful and safe means of lifting gear.

To move the materials composing the platform with great caution, appropriate means are needed for the movement of the platform, of sufficient capacity.

In each move carefully check the stability of the load, during the movement keep the load as low as possible.

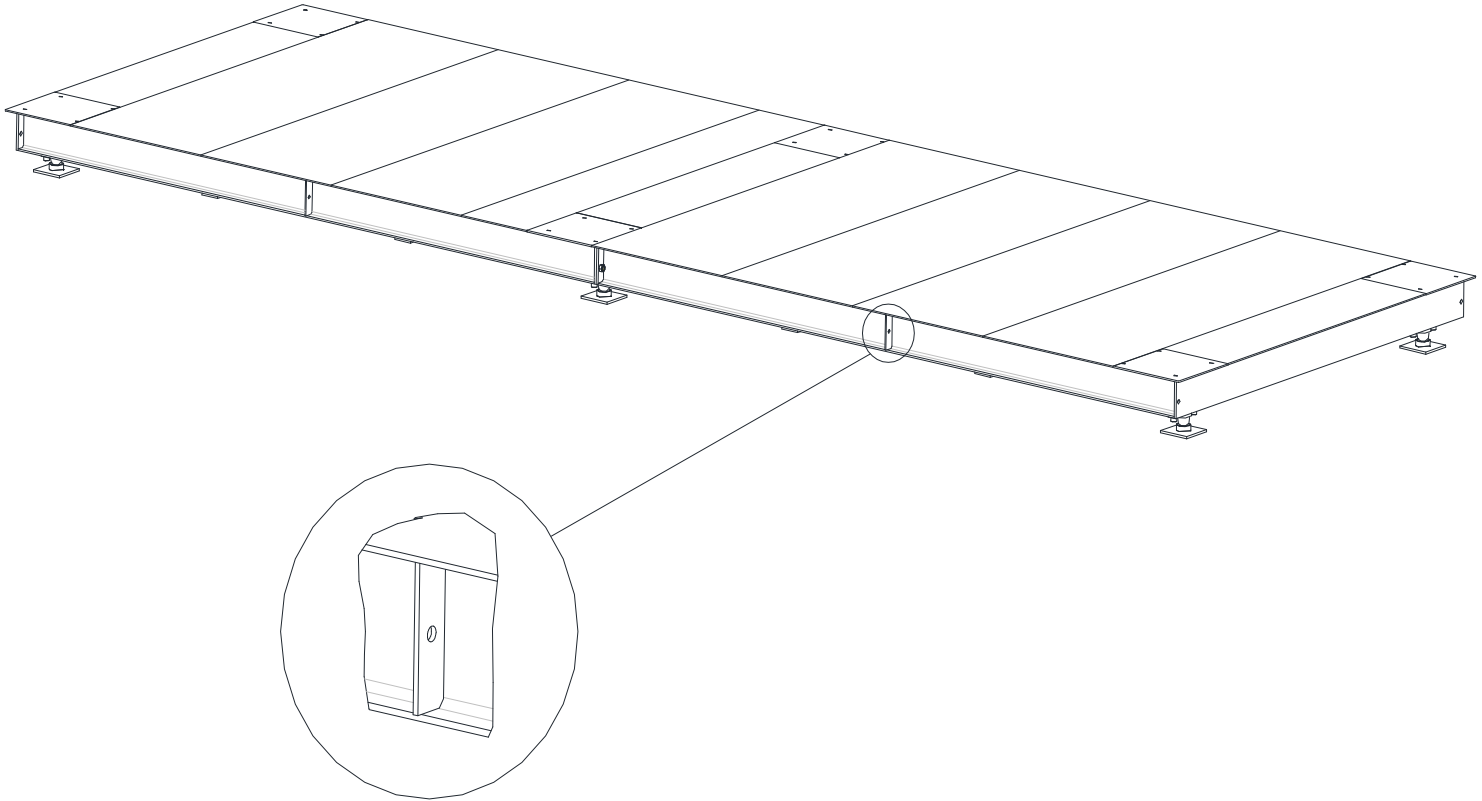
When using a crane (recommended), use of chains or ropes of proper strength and capacity, to avoid oscillations of the load, always making sure to have good visibility when driving.

Also check that under the load lifted during the movement there are no people.

MOVING THROUGH CRANES OR BRIDGE CRANES

The modules "WBSAA-1" are designed to be moved through cranes, bridge cranes or similar lifting devices. This type of procedure can be easily performed thanks to "hook side" prepared for the insertion of hooks.

Example of WBSAA-1 9 meters: (2 bridges with 1 side hooks each).



As shown in the figure above each module was fitted with a hook intermediate, in order to offer a simple solution to lifting regardless of the type and place of installation of the weighbridge you must make

7. EARTHING THE SYSTEM

To ground the system, the following material is provided:

- 1 ground wire (16 mm² for each load cells), to connect to the steel plate of the ball self centering;
- Bolts and screws for fixing the ground wire to the bridges.

NOT PROVIDED:

The copper cable (section at least 50 mm²), from foundations and the ground system, for the present system of weighing. This cable is not supplied by us but always made by the installer.

GROUNDING OF EACH LOAD CELLS

For a correct earthing system, connect to the ground each load cells of the weighing system, with copper cable (yellow-green) with section at least 16 mm² to the bridge placed on the top on it, to the steel plate of the ball self centering (see images below):



FIXED PLATFORM UNDERGROUND

After connecting the load cells with the bridge placed over each other and with the base of the ball self centering, must lead to the ground (with ground wires present), the whole weighing system through manholes and ducts in places subtrack weighing system. (See section INSTALLATION ON ROAD PLAN for the drawings).

Connect all the wells with copper wire having section at least 50 mm² (not standard fitted), and through canalizations bring all the cables from the foundations to sinks dedicated exclusively to the weighing system.

8. INSTALLATION AND CONNECTION TO THE “WBSAA-1”

For any information or ultimate drawings for installation and connection to the “WBSAA-1”, ask the producer, e-mail to info@diniargeo.com

8.1 INSTALLATION

NOTE: The weighbridge WBSAA-1 must be connected to a weight indicator, dedicated to it, through the wires from the modules (bridges).

The installation of WBSAA-1 should be performed only by authorized DINI ARGEO.
The building work must be carried out instead by following the instructions on the drawings and information provided by DINI ARGEO.



Maintain an adequate space near the platform to allow maintenance and operations on the weighing modules, or on the load cells.
The indicator must be positioned so as to allow the operator to display the value of the weight of the platform and at the same time.
Alternatively use mirrors or cameras.

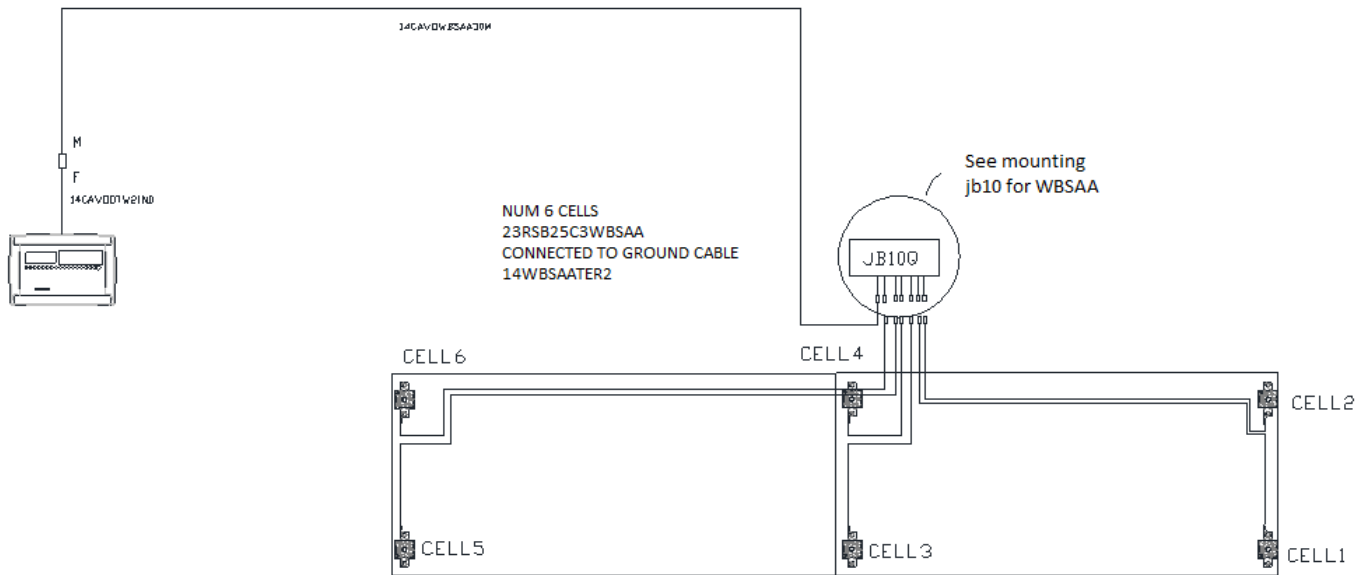
Before using the weighbridge to read the information contained in this manual.
In particular, do not load the platform with loads that exceed the maximum range of the instrument;
Any weighing of loads without wheels (eg, containers) must be done to avoid shock or falling material on the platform.
No welding on the platform or on the load cells.
Avoid to get in contact the platform with aggressive substances are not compatible with the materials of the constitution of the platform.
For the description of the weighing operations, see the manual of the relative indicator, purchased with the platform.



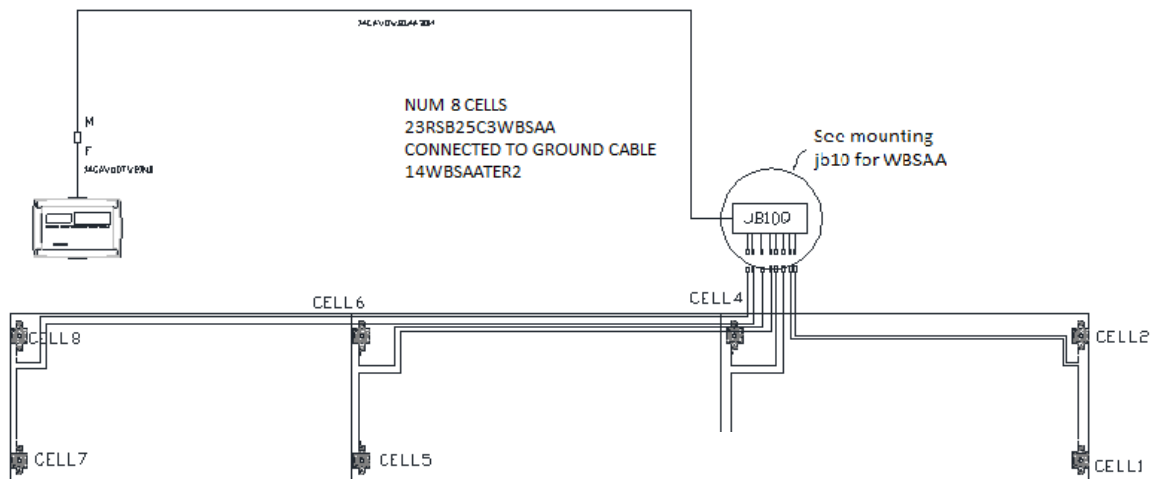
The area of installation of the platform shall be such as to facilitate the operations of weighing, but it must be away from traffic areas and maneuvering of trucks or any other means which may exceed the maximum range of the instrument.

8.2 CONNECTION BETWEEN JUNCTION BOX AND INDICATOR

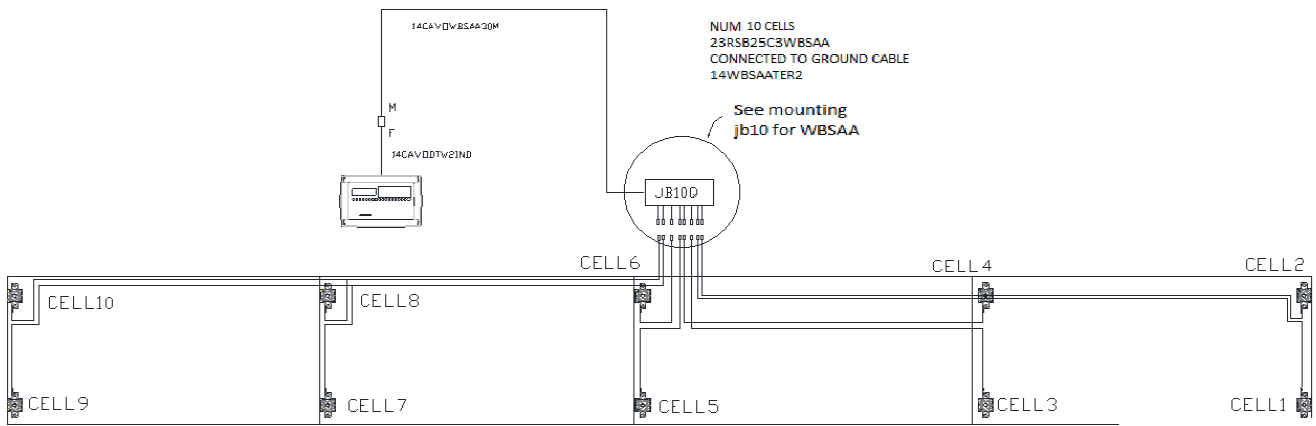
8.2.1 CONNECTION BETWEEN LOAD CELLS, JUNCTION BOX AND INDICATOR ON WBSAA-1 9 METERS:



8.2.2 CONNECTION BETWEEN LOAD CELLS, JUNCTION BOX AND INDICATOR ON WBSAA-1 14 METERS:



8.2.3 CONNECTION BETWEEN LOAD CELLS, JUNCTION BOX AND INDICATOR ON WBSAA-1 18 METERS:



NOTE: The weighbridge WBSAA-1 must be connected to a weight indicator through the wires from the modules (bridges).

COLOR OF WIRES FOR CONNECTION BETWEEN JUNCTION BOX AND INDICATOR

EXCITATION +	Brown
SENSE +	Green
EXCITATION -	Grey
SENSE -	White
SIGNAL +	Pink
SIGNAL -	Yellow
SHIELD/GROUND	Orange

9. CALIBRATION

- a) If the WBSAA-1 system is supplied with the instrument, there is no need to calibrate it (skip points b), c), d) and e), otherwise follow the specific instructions of the indicator to commission and start-up the weighing device and also the following points b), c), d) and e)).
- b) The instrument is to be calibrated approximately 15 minutes after it has been switched on.
- c) Calibrate the electronic instrument following the instructions given in its technical manual.
- d) Make sure the difference in the weights detected using a sample load (or a vehicle) on each bar does not exceed + / - 2 divisions, otherwise contact the VENDOR.
- e) Check the Zero and Full scale values using a reference weight or a vehicle of known weight.

10. MAINTENANCE AND REPAIRS

All routine maintenance, inspections and lubrication in general are to be carried out with the machine stopped and disconnected from the power supplies (electricity and other) and exclusively by specialized personnel.

All maintenance and repair jobs are to be carried out exclusively by specialised personnel. It is obligatory to disconnect the power supply on the electronic terminal before starting any work on the platform.
Do not weld any part of the platform.



WARNING!!



By “specialized personnel” we mean personnel who through proven training and professional experience are explicitly authorized by the “person in charge of the system’s safety” to install, use and service the instrument.

TO ENSURE LASTING OPTIMUM PERFORMANCE

- Keep the platform clean. If dirt and dust should build up on it, clean using a damp rag or rag and normal cleaning products (**do not use SOLVENTS and ACIDS**).
- Avoid impact against the platform as this could cause serious damages.

11. FAULTS AND OVERLOADS

If you believe that the platform is faulty or damaged, disconnect it permanently, especially in the following cases:

- a) If the platform shows signs of damage.
- b) If the platform stops working.
- c) If the platform has been overloaded beyond tolerable limits.

12. INSTALLATION ON ROAD PLAN

For any information or ultimate drawings for installation on road plan, ask the producer, e-mail to info@diniargeo.com

WARRANTY

The TWO-YEAR warranty period begins on the day the indicator is delivered and covers spare parts and labour if the INSTRUMENTS are returned with prepaid shipping to the DEALER and if the breakdowns are not caused by the customer (i.e. improper use) or during the transport.

If on site service is requested (or is necessary) the customer will be responsible for all of the service technician's costs: travel time and expenses plus room and board (if any).

The customer pays for the shipping costs (both ways), if the instrument is shipped to DEALER or manufacturer for repair.

The WARRANTY IS VOIDED if breakdowns happen because repairs have been made by unauthorised personnel or due to connections to equipment installed by others or incorrect connection to the power supply.

This warranty DOES NOT PROVIDE for any compensation for damages (indirect or direct) which may cause partial or complete failure of the instruments or systems sold, even if still in the warranty period.

AUTHORIZED SERVICE CENTER STAMP

