



**SMART SCALE  
INSTALLATION & OPERATING MANUAL**

Version 1.74



# SMART SCALE INSTALLATION & OPERATING MANUAL

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# SMART SCALE INSTALLATION & OPERATING MANUAL

## IMPORTANT SAFETY NOTICES

For your safety, please read this manual thoroughly before operating your TruckWeight scale. The safety messages presented throughout this manual are reminders to the operator to exercise care when installing and using this unit. In addition, always refer to and follow the safety messages and applicable service procedures provided by the manufacturer of the vehicle being serviced.

Please read, understand, and follow all safety messages and instructions in this manual.

## DO NOT OPERATE HANDHELD SCALE WHILE DRIVING.

**The TruckWeight handheld units and sensors are intrinsically safe and suitable for use in explosive areas.**

The TruckWeight handheld and sensor (also referred to as the TruckWeight wireless truck scale) are acceptable for use in Class I, Divisions 1, Groups A, B, C and D, Class II, Divisions 1, Groups E, F and G, and Class III Division 1 Hazardous Locations. Both the handheld and the sensor are ultra low-energy devices, which include energy limiting circuits and low-voltage batteries (2 X 1.5 V). Both devices feature very low power consumption (less than 18mA/54mJ/s peak).



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## WARNINGS

**Many air suspension systems maintain residual pressure in the air lines after the engine has been turned off. Please take the following precautions:**

- Wear safety glasses, chemical resistant gloves, and protective clothing when connecting and disconnecting air lines.
- Confirm ZERO pressure before connecting and disconnecting air lines.

**Beware of the risk of unexpected vehicle movement. Please take the following precautions.**

- Block the drive wheels before installing the sensors.
- Ensure the parking brake is set.
- Do not leave a running vehicle unattended. A moving vehicle can cause injury.

**The engine has moving parts and there is a risk of entanglement. Please take the following precautions:**

- Do not place tools on fenders or anywhere within the engine compartment.
- Keep yourself, your clothing, adapters, and service hoses clear of moving parts such as fan blades, belts, and pulleys.
- Users and bystanders should wear safety goggles when near a running engine. Moving components can cause eye injuries.

**Maintain your focus on the road. Do not use the handheld unit while driving.**

**Beware the risk of burns. Please take the following precautions:**

- If at all possible, avoid working near hot truck components, and instead allow the truck to cool off before proceeding. However, if it is absolutely necessary to do so, ensure that protective gloves are worn.
- Do not touch hot exhaust systems, manifolds, engines, radiators, etc. Hot components can cause injury or severe discomfort.



# SMART SCALE INSTALLATION & OPERATING MANUAL

## TRUCKWEIGHT QUICK START STEPS

For best results, we recommend that before installation and calibration you spend some time familiarizing yourself with the TruckWeight scale. This should be done **before** the sensors are installed on your truck. The following TruckWeight Starter Steps will assist you with the usage of your scale.

1. Place batteries in the handheld and sensors.
2. Turn on the Handheld by pressing any button **Home** screen will appear. (See Fig.1, Page 5)
3. Hold **Center and Right** button for five seconds and release to **change time** using the ↓ arrow buttons (Fig. 2, Page 6). Press the **Center** button in any screen and it will return to the Home screen, where the rig appears.
4. Hold **Center and Left** buttons for five seconds to **change the Rig**. Use the ↓ arrow buttons to toggle between the twenty six rig types. (Fig. 3, 4, 5 Page 6)
5. Hold **Center and Up** buttons for five second to **enter sensor numbers**. Use ↔ arrow buttons to toggle between axle groups and the ↓ arrow buttons to change the sensor numbers (Fig. 6, Page 6). Press **Center** button to confirm your selection and return Home screen.
6. Hold **Center and Down** buttons together to **enter calibration information**. Press Center button to confirm calibration and ret to Home. (Fig. 7, Page 7)
7. Hold **Up and Down** buttons for five seconds only in Home position, and release, to switch back and forth between Kilograms and Pounds.

**IT'S THAT SIMPLE !**

**NB:** Further detailed information about these steps can be found on pages 5, 6 and 7 of this manual.

**Note:** The weight on the left of the Home screen is the axle group weight, and the weight to the right of the screen is the total of all the axle groups (gross vehicle weight). The flashing axle weight (left) means the signal on that axle group was not received by the handheld when the sensor sent its last signal. Sensor sends a signal every minute when not loading. When loading the sensor will detect an set pressure change and go into "Quick Response" and send an update every three seconds when loading. "Q" will appear on the Home screen during Quick Response and will automatically end fifteen minutes after loading detection.

TruckWeight, 1600 Bedford Highway Suite 100-177 Halifax, Nova Scotia Canada B4A 1E8 Call: 1-877-757-7888 Fax: 902-431-9587 email: info@truckweight.com  
Our office is open Monday through Friday 8am to 5pm Eastern Standard Time.

## INSTALLING YOUR SENSOR(S)



The installation of the sensor(s) is so simple that they can be installed in the field. The wireless sensors come with all materials needed for installation, except a small inexpensive length of D.O.T. tubing.

Install the batteries provided into the battery chamber, noting that the polarity of the battery is indicated inside the chamber. Be sure not to introduce moisture or foreign matter into the battery chamber. Insert the cap screws and tighten with a screwdriver diagonally until all four screws are evenly tightened... **DO NOT OVER TIGHTEN...** Place a thin layer of silicone or blue gasket glue around the gasket and cap.

Sensor(s) can be mounted anywhere on your rig, with the exception of inside a metal casing. **Place a washer between the sensor back and the mounting surface to act as a spacer.** Prior to permanently mounting the sensor(s), test the radio signal from inside the cab and/or other locations where you wish to receive the signal. You know you are getting the signal as you will see the pressure and temperature reading on the front screen for each sensor (axle group) once the handheld is turned on and the first signal is received. If the signal is not received you will see \*\*\*\* on the top right hand corner instead of the pressure and temperature readings.

In all cases, the tee must be placed into the airline of the air suspension system between the air bags (see diagram below). The only tools that are needed are cutters to cut into the plastic D.O.T. tubing, and a wrench to tighten the mounting bolt of the sensors.



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The diagram below reflects a typical installation. It is OK to put the sensor on the inside of the frame rail, the cab, or tool box as long as you get your signal where you need it. It is also OK to protect the sensor with a plastic case or bag; however, it is not necessary.

Using an existing hole on the tractor and/or trailer frame, tighten the locking nut to about 20 ft-lb. Place a washer between the sensor the mounting surface to act as a spacer as there is a guage port on the back of the sensor that measures atmospheric pressure. When determining the best location for the sensor, allow enough room for the battery cap to be removed so that the batteries can be changed.

The batteries should last over one year, and when the batteries are nearing the end of their life a low battery signal is sent to the handheld. Lithium 1.5 volt batteries should last for over one year. Information is not lost if batteries are dead.

The serial number displayed on the side of each sensor represents its individual ID number, which is required to communicate with the handheld unit.

Sensor(s) are equipped with fittings, and come with the tee to tee into the air line that runs between the air bags, plastic tie wraps, batteries and a handheld case are included.

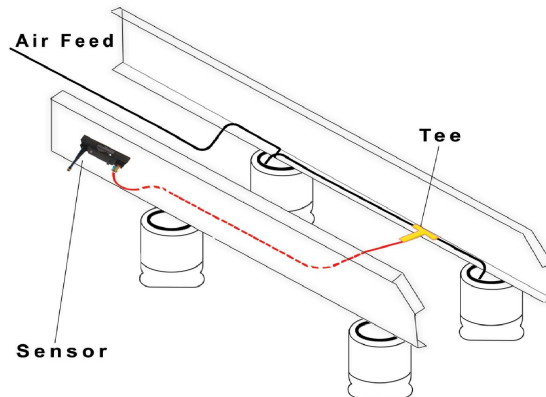
Find a suitable location to tee into the air suspension system between the air bags, cut the air line, and insert the tee. Cut a suitable length of D.O.T. tubing (not provided)

Connect it to the tee and to the sensor, and secure the tubing with the tie wraps provided.

Make certain the D.O.T. **tubing runs in a downward position from the sensor fitting** to prevent any moisture from the tubing into the sensor. This will prevent any moisture in the air line from running into the sensor(s).



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to run from the mounted sensor to the tee.

## OPERATING YOUR HANDHELD RECEIVER



### ON/OFF

Hold down any button to turn the unit on. To extend battery life, the power turns off automatically in ten minutes when not in use.



Figure 1



# SMART SCALE INSTALLATION & OPERATING MANUAL

The home screen displays your rig gross weight (on the right) and the weight of each axle group (on the left) from the sensor(s) installed for that axle group. The weight information is normally updated once each minute, but automatically goes into “Quick-Response “mode during loading. In this mode, the weight information is updated every five seconds for fifteen minutes. The vertical bar on the right-hand side indicates how much time remains until the next update.

## SET TIME

Hold Center and Right button for five seconds until the time appears then release. Change time using the ↓ arrow buttons. Note it is a 24:00 hour clock with no AM or PM. Choose the desired time and press the Center button to return to the main truck screen.

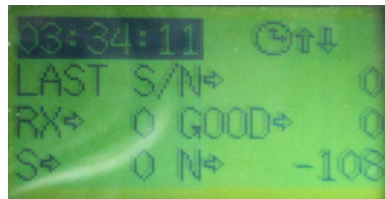


Figure 2

## SELECT A RIG

Hold Center and Left buttons for five seconds to change Rig types by using the ↓ arrow buttons.

### Example of three of twenty six rigs

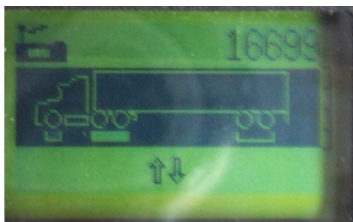


Figure 3

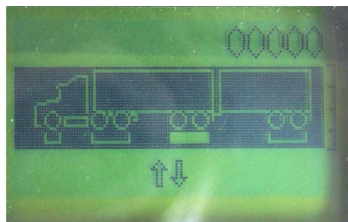


Figure 4

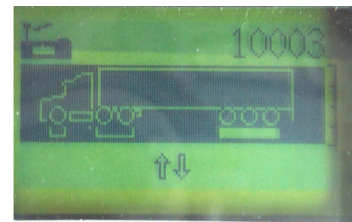


Figure 5

## ENTER SENSOR NUMBER(S)

Hold Center and Up buttons for five seconds to enter sensor numbers. Use ↔ arrow buttons to toggle between axle groups and use the ↓ arrow buttons to change the sensor number on the select axle group. Press Center button to confirm your selected sensor number(s) for the rig.



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You may enter additional sensor(s) by writing over the sensor number already displayed.

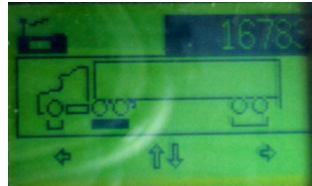


Figure 6

### TESTING THE RADIO SIGNAL

Once the sensor numbers have been entered into the handheld, the radio signal for each sensor can be checked on the Home screen (it take up to one minute for the sensor to transmit a signal to the Handheld receiver. Place the sensor in the planned mounting location. Check the signal in the cab of the tractor and/or on a loader and/or other locations where you will want to receive a signal. You know that you are receiving a signal when you see the pressure and temperature reading on the Home screen for each sensor (axle group) use the ↔ arrow buttons to toggle between axle groups. If the signal is not received you will see \*\*\*\* in the top right hand corner instead of the pressure and temperature reading for the selected axle group. Change the sensor mounting location to a location where you will receive the signal consistently. Note, the bar to the right of the home screen is a timer. It takes one minute to go from the top to the bottom of the screen. When the bar get to the bottom of the screen a new signal is sent from the sensor. When the sensor is in Quick response the bar appears solid and a Q is visible. Some sensors will transmit their signal farther than others. If you are not obtaining a signal from a sensor in a particular location you may try switching the tractor sensor with the trailer sensor.

### CALIBRATION

After your sensor(s) are installed, drive to an accurate set of in ground scales and record either the loaded or empty weight of each axle group on your truck from the in-ground scale, as well as, the corresponding pressure reading from your handheld. Toggle between each axle group and record the pressure reading from the top right corner of the Handheld screen for each axle group.

Keep a written record of the ground scale weight and the Handheld pressure. This process will be repeated when your truck is loaded or empty – it doesn't matter which is recorded first, the empty or loaded values. As well, it doesn't matter whether your fuel tank is empty or full during the calibration process.



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Hold the Center and Down buttons together for five second and the Calibration screen will appear. Use the ← arrow buttons to hi-light the loaded weight and pressure and the empty weight and pressure. Use the ↓ arrow buttons to change the value of the selected field. Press the Center button to confirm the Calibration information you have entered.



Figure 7

### CALIBRATION (con't)

The sensor number that you are entering for the calibration information will appear on the top right corner.

**NOTE:** For the calibration weight only, ensure that your load is not heavier than 65,000 lbs. or 29,710 kg. per axle group. You can read up to 100,000 lbs under normal operation. ALSO: while on the in-ground scale, it is recommended that you dump your air bags, then refill, and that the brakes are off, if safe to do so, prior to recording the calibration pressure. Applying the brakes during the calibration process can place a slight torque on the air suspension system, which may affect the accuracy of the air pressure reading. While your truck is on the scales write down the handheld pressure for each sensor from the Home screen, also write down the in ground scale weights, and enter the pressure and weight into the handheld at a convenient time. Make sure the air pressure in the air bags has settled prior to recording the pressure for each sensor while on the scale.

If you are installing more than one sensor, repeat the above process for the other axle group(s). Your wireless Smart Scale is now calibrated and ready for operation.

**Note:** That the front axle (steer) requires no sensor; however, since some operators like to know the total loaded weight of the rig. We have created the dummy sensor serial number 10001 that may be entered on the front axle. Input the loaded front axle weight and the empty front axle weight. Note that front axle weight will adjust in proportion to the drive axle weight.

Calibration only needs to be performed once; however, if you change components of your air suspension system, you may be required to perform a second calibration to retain the same high level of accuracy.



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## CALIBRATION OF LIFT AXLES CONTROLLED BY A REGULATOR

With a loaded rig, position the trailer on the scale so that the weight of only the lift axle can be obtained. Apply air pressure to the lift axle of between 20 to 25 PSI. Record the weight on that axle from the scale and the air pressure displayed on the handheld, and this will be the empty calibration setting. Increase the pressure to between 40 to 45 PSI. Record the weight from the scale and the air pressure displayed on the handheld, and this will be the loaded calibration setting. Note that the sensors on your drive axles and/or tandem axles should be calibrated with the lift axles up.

## SWITCHING BETWEEN LBS & KGS

While at the home screen, hold Up and Down buttons for five seconds to switch between Kilograms and Pounds.

## SWITCHING TRAILERS

Enter all the serial numbers of your trailer fleet's sensors into your handheld by holding the Center and Up buttons. You may wish to write the sensor number on the side of the trailer for convenience. When switching trailers, simply enter the serial number of the new trailer's. Hold Center and Up buttons for five seconds to enter sensor numbers. Use ↔ buttons to toggle between axle groups, placing the bar on the trailer axle group, and the ↑ to change the sensor number to the selected trailer. Press Center button to confirm your selection.

## DELETING SENSOR(S)

Hold the Left and Up button for five seconds and the Erase sensor screen will appear.

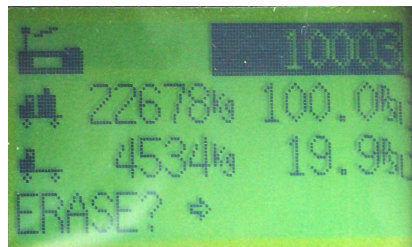


Figure 8

Use the ↔ keys to locate the sensor you wish to delete. Press the ↓ key once to highlight "ERASE", and press the → key to confirm deletion. **CAUTION** this is a complete deletion of the sensor from memory and you will lose your calibration information. Write down the calibration information prior to deletion it may be required at a future time.

If you have any questions please send them via email to [info@truckweight.com](mailto:info@truckweight.com) or call toll free at 1-877-757-7888 and speak with one of our customer service representatives.

TruckWeight, 1600 Bedford Highway Suite 100-177 Halifax, Nova Scotia Canada B4A 1E8 Call: 1-877-757-7888 Fax: 902-431-9587 email: [info@truckweight.com](mailto:info@truckweight.com)  
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## SMART SCALE INSTALLATION & OPERATING MANUAL

### WARRANTY AND CONDITIONS OF SALE

All quotations and sales by Truckweight, its subsidiaries, affiliates, dealers or distributors are subject to these terms and conditions, unless there is a binding superseding written signed contract in place with Truckweight.

1. Terms of payment are cash or equivalent; prices are CIF; and wireless truck scale prices do not include any taxes, insurance, handling, duty or other similar charges, payment of which will be the sole responsibility of customer unless otherwise specified on TruckWeight valid invoice.
2. Truckweight. may select a carrier. Truckweight responsibility for any loss or damage ends, and title passes, when Wireless Truck Scales are delivered to the carrier, to customer, or to customer's agent.
3. The Truckweight Wireless Truck Scale is warranted against defects in material or workmanship for 2 years from the date of the original purchase (unless and extended warranty is purchased. If the Truckweight Wireless Truck Scale, which, because of a manufacturing mistake or malfunction, proves to be defective within the 2 year warranty period, it will be repaired or replaced at TruckWeight option, provided it is returned to TruckWeight with a Return Authorization Number issued by TruckWeight. Once an RAN# is obtained MAIL the product back to TruckWeight marked "goods original in Canada". There is a \$30.00 handling fee for warranty exchanges in North America. Handling fees in other regions outside North America may change at TruckWeight discretion and must be confirmed with TruckWeight prior to shipping. This warranty does not cover incidental or consequential damage to persons or property caused by use, abuse, misuse, failure to comply with installation or operating instructions, or damage caused by battery malfunction. Some states do not allow the exclusion or limitation of incidental or consequential damages, so the above warranty does not apply in those states. This warranty gives you specific legal rights and you may also have other rights, which vary state to state.
4. **TRUCKWEIGHT. SHALL HAVE NO RESPONSIBILITY FOR OVERLOAD FINES RECEIVED WHILE USING THIS WIRELESS TRUCK SCALE.**
5. Wireless Truck Scales are deemed accepted by customer unless customer notifies Truckweight. in writing within 10 days of delivery of Wireless Truck Scale shortages, damage or defect. No returns may be made for any reason without obtaining Return Authorization Number (RAN#) issued by Truckweight If customer refuses to accept tender or delivery of any Wireless Truck Scales or returns any Wireless Truck Scales without authorization from Truckweight, such

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Wireless Truck Scales will be held by Truckweight. awaiting customer's instruction for 20 days, after which Truckweight may deem the Wireless Truck Scales abandoned and dispose of them as it sees fit, without crediting customer's account. Any and all Wireless Truck Scales that are returned as stated herein are subject to a 20% restocking charge.

6. Truckweight will not be liable for any failure or delay in its performance or in the delivery or shipment of Wireless Truck Scales, or for any damages suffered by customer by reason of such failure or delay, when such failure or delay is caused by, or arises in connection with, any fire, flood, accident, riot, earthquake, severe weather, war, governmental interference or embargo, strike, shortage of labor, fuel, power, materials or supplies, delay in delivery by Truckweight suppliers or any other cause or causes beyond Truckweight reasonable control. Truckweight reserves the right to cancel without liability any order, the shipment of which is or may be delayed for more than 30 days by reason of any such cause. Truckweight. reserves the right to allocate in its sole discretion among customers or potential customers, or defer or delay the shipment of, any Wireless Truck Scale which is in short supply.
7. All quotations and sales are made only upon these terms and conditions and those on the invoice. The invoice and not any purchase order or other customer document (which, if construed to be an offer is hereby rejected), will be deemed an offer or counter-offer and is a rejection of any other terms or conditions. Customer, by accepting any Wireless Truck Scales, making any payments or ordering any Wireless Truck Scales accepts these terms and conditions and will be deemed to have assented to these terms and conditions, notwithstanding any terms contained in any prior or later communication from customer and whether or not Truckweight. will specifically or expressly object to any of customer's terms. Truckweight failure to object to any document, communication or act of customer will not be deemed a waiver of any of these terms and conditions. Any addition or change to these terms and conditions must be specifically agreed to in writing by a duly authorized officer of Truckweight before becoming binding on Truckweight..

### **WARRANTY AND CONDITIONS OF SALE con't**

- 1 Unless specifically otherwise agreed in writing by Truckweight, customer acknowledges that Wireless Truck Scales sold by Truckweight. are not intended for and will not be used in life support systems, human implantation, nuclear facilities or systems or any other application where Wireless Truck Scale failure could lead to loss of life or catastrophic property damage. Customer will

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indemnify and hold Truckweight harmless from any loss, cost or damage resulting from customer's breach of the provisions of this paragraph.

- 2 Any or all Wireless Truck Scales may be subject to export or resale restriction or regulation, and customer acknowledges that it will comply with such regulations or restrictions. Any or all Wireless Truck Scales may have been imported. Country of origin information is as provided to Truckweight by its suppliers and is, where applicable, located on the Wireless Truck Scales themselves or the supplier's innermost packaging thereof.
- 3 Except for the warranty coverage referenced in paragraph 3, above, **NEITHER TRUCKWEIGHT. NOR ITS SUPPLIERS WILL HAVE ANY LIABILITY OR OBLIGATION TO CUSTOMER OR ANY OTHER PERSON FOR ANY CLAIM, LOSS, DAMAGE, OR EXPENSE CAUSED IN WHOLE OR IN PART, DIRECTLY OR INDIRECTLY, BY THE INADEQUACY OF ANY WIRELESS TRUCK SCALES FOR ANY PURPOSE, BY ANY DEFICIENCY OR DEFECT IN ANY WIRELESS TRUCK SCALE (WHETHER OR NOT COVERED BY ANY WARRANTY), BY THE USE OR PERFORMANCE OF ANY WIRELESS TRUCK SCALES OR BY ANY FAILURE OR DELAY IN TRUCKWEIGHT.'S PERFORMANCE HEREUNDER, OR FOR ANY SPECIAL, DIRECT, INDIRECT, INCIDENTAL, CONSEQUENTIAL, EXEMPLARY OR PUNITIVE DAMAGES, HOWEVER CAUSED, INCLUDING, WITHOUT LIMITATION, PERSONAL INJURY OR LOSS OF BUSINESS OR PROFIT, WHETHER OR NOT CUSTOMER WILL HAVE INFORMED TRUCKWEIGHT. OF THE POSSIBILITY OR LIKELIHOOD OF ANY SUCH DAMAGES.**
- 4 Truckweight. may assign accounts receivable to a Truckweight. affiliate. In order to defray the cost of customer account administration, any credit balance or other sum owed to customer who remains unclaimed by customer for a period of eighteen months will become the property of Truckweight.
- 5 No order may be cancelled, rescheduled or reconfigured without Truckweight prior written authorization and, in such event; customer will be liable to Truckweight. for any additional costs and expenses incurred by Truckweight.
- 6 Prices are subject to change by Truckweight. upon customer rescheduling or reconfiguration of orders. Prices are also subject to change in response to supplier price increases, whereupon, customer may cancel the undelivered portion of any affected order by delivering written notice to Truckweight prior to the shipment thereof and within 10 days of its receipt of notice of the price increase.



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### TRUCKWEIGHT. CONTACT INFORMATION

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Call: 1-877-757-7888

Fax: 902-431-9587

email: [info@truckweight.com](mailto:info@truckweight.com)

Returns with a RAN will be shipped to:

#### TruckWeight

1600 Bedford Highway Suite 100-177 Halifax,  
Nova Scotia,  
Canada,  
B4A 1E8.



## SMART SCALE INSTALLATION & OPERATING MANUAL

# TRUCKWEIGHT

## Declaration of Conformity

According to EN 45014

**Truckweight**, hereby, declares that the following product:

**Product Name:** *Onboard Wireless Truck Scale*

**Product Model Number(s):** *MS01* and *HH1.74*

**Product Type:** *Sensor* and *Handheld*

Conforms to the appropriate country standards and governing regulations listed below. We, as the manufacturer, are fully responsible for the design and production of the above mentioned equipment.

### **EN 300 220-3 v1.1.1:**

"Electromagnetic compatibility and Radio spectrum Matters (ERM); Short Range Devices (SRD); Radio equipment to be used in the 25 MHz to 1 000 MHz frequency range with power levels ranging up to 500 mW; Part 3: Harmonized EN covering essential requirements under article 3.2 of the R&TTE Directive"

### **EN 301 489-3 v1.4.1:**

"Electromagnetic compatibility and Radio spectrum Matters (ERM); Electromagnetic Compatibility (EMC) standard for radio equipment and services; Part 3: Specific conditions for Short-Range Devices (SRD) operating on frequencies between 9 kHz and 40 GHz"

### **Supplementary Information:**

The product herewith complies with the following provisions of normative European Council Directives and carries the CE marking accordingly:

### **R&TTE Directive 1995/5/EC**

This product was tested in a typical configuration.

**Peter Panagapko** May 12, 2008

**President  
Truckweight.**

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