

FARM SCALE Truck & Ag Weigh System



Reliable Super-B Train Weighing. Know your weight before going to the weighbridge.

Accurate Weighing Throughout the Crop Cycle

Do you experience any of the following challenges?

- Fed up with wasting time, effort, energy and money driving to the community scale
- Feeling anxious about being caught overloaded
- Worried by the prospect of time, effort and energy to deal with overload fines
- Having doubts whether all your product is getting to the terminal and being weighed
- Want to be sure you are getting all the inputs that you're invoiced for
- Concerned you are missing out by under or over applying inputs
- Uncertain whether your combine yield monitor is accurate
- Frustrated with manual tracking of all your product flow

Massload's Solution

Join the hundreds of crop farmers across Canada who already reap the benefits of the proven **Massload Farm Scale**

- Say goodbye to driving to the community scale
- Prevent the unwanted loss of hard-earned money from overload fines
- Easily track, monitor and control input variables to improve yield
- Feel confident that you are getting what you pay for
- Save time, reduce effort, and increase your money
- Have peace of mind with a farm scale right on your yard
- Capture product flow with Data Management software



Proven Durability Under the Toughest Conditions

www.massload.com

FARM SCALE Applications

Improve Optimisation Throughout the Crop Cycle

The Massload farm scale is used to improve optimisation and efficiency through-out the crop cycle



Features Summary



Flexibility: Weigh any truck/ tractor/trailer configuration.

Super-B Train: 14-foot long axle pad scales specifically designed to accommodate the wide axle spacing of Super-B Train centre bridge.

Rugged and Reliable: heavy-duty axle pad scales take continuous, year-round pounding in their stride, from our coldest winters to hottest summer days.

Installation (almost) Anywhere: large 4" x 30" wide footprints at each end and centre allow scale to be installed on almost any surface, including compacted gravel.

Auto-Weighing Configuration:

Remote display with green/red traffic light provides signalling for touch-free operation, eliminating the need for a scale attendant. Simply drive on and follow the signal.

Water tight Sum Boxes: Our new machined aluminum sum boxes with quick disconnect Amphenol connectors provide for enhanced portability and ensure moisture problems are a thing of the past. Kits are available as an upgrade on older scale models.

Remote Solar Power Option:

Set you scale up at multiple remote fields with Massload's 100 watt remote Solar Power Station provides robust.



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FARM SCALE Auto Weigh System Anatomy

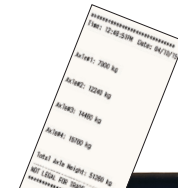
FARM SCALE Baseline Configuration

The Massload farm scale is used to improve optimisation and efficiency throughout the crop cycle

- Western Scale Aurora 4.5" Remote Display with Stop Go Traffic light



- 150 ft Massload display cable



- Automatic Ticket Printer provides individual axle group weights as well as total weights plus date and time.



- Safe weighing with non-skid decking

- New Massload aluminum watertight junction boxes

- Heavy duty structural steel construction

- Innovative rubber seal to prevent ice & dirt build up under load cells



- Western Scale Quality M1 Digital Scale Indicator

- 84" x 30" axle pads for dual axle truck weighing
144" x 30" axle pads for tri-axle truck weighing
168" x 30" axle pads for Super-B Train truck weighing

- 6 of Massload Super Duty 26" load cells

- 6" low profile for ease of use

- Wide 30" x 4" load cell base mount facilitates use on compacted farm yard gravel

- Steel ramps for installation on any surface



- Quick Disconnect Quality Y-Cable from Scale to Indicator with rodent proof sleeving

How it Works

1. Prior to weighing, the remote display stop-go traffic light displays green indicating ready to proceed onto scale.
2. When the first truck axle is driven onto the axle scale, the remote display stop-go traffic light turns red, signaling driver to stop.
3. When the axle weight is captured, the axle number is displayed (e.g., A1) followed by the axle weight. The A1 axle weight is also printed out.
4. The traffic light then turns green indicating driver to proceed driving next axle group onto the scale.
5. When next axle group is on the scale, the signal light turns red for driver to stop. This process is repeated for all axle groups.
6. When last weigh is complete and the truck is driven off the scale, after a period of 15 seconds, the total weight is displayed flashing for several seconds. The printed weight ticket is also completed. The traffic light reverts to green and the system is ready for the next truck.
7. Each weight ticket can be removed after printing. Alternatively, they can be left as subsequent vehicles are weighed and the roll of weight tickets can then be removed.



FARM SCALE Data Management Configuration

Wireless Software Data Management

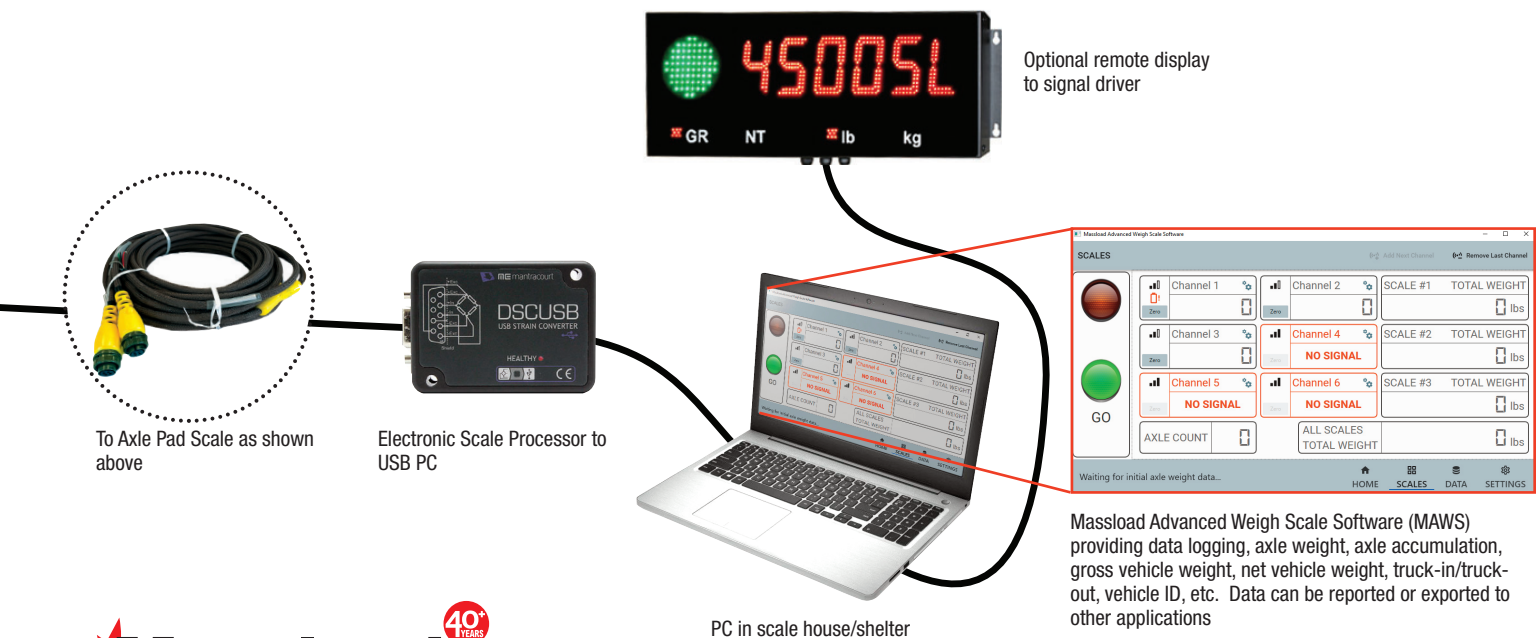
In this configuration, the app (Massload Advanced Weigh Scale Software MAWS) controls the operation in a similar manner to above. As the mobile PC tablet is in the cab with the driver, the app has a stop-go traffic light which directs the driver as with the remote display configuration. All weigh data is captured and logged in the app together with truck ID and other information.



Massload Advanced Weigh Scale Software (MAWS) providing data logging, axle weight, axle accumulation, gross vehicle weight, net vehicle weight, truck-in/truck-out, vehicle ID, etc. Data can be reported or exported to other applications

Hardwired Software Data Management

In this configuration, the app controls the operation as per above. However, PC is in the scale house and is connected by wire to the scale via the Electronic Scale Processor. The app has a stop-go traffic light which can be communicated to the driver by a scale operator on a cell phone. Alternatively, an optional remote display can be connected to the PC and the app will control the display as in the baseline configuration.



Optional remote display to signal driver

Massload Advanced Weigh Scale Software (MAWS) providing data logging, axle weight, axle accumulation, gross vehicle weight, net vehicle weight, truck-in/truck-out, vehicle ID, etc. Data can be reported or exported to other applications

FARM SCALE Selecting the Right Size

Choose the right scale



84" x 30" axle pads for single and dual axle truck weighing.



144" x 30" axle pads for tri-axle truck weighing.



168" x 30" axle pads for super-b train weighing.

FARM SCALE Farm Yard Installation Options

The Massload Farm Scale is designed to be adaptable to almost any farm yard situation including:

- Direct on pavement or concrete
- Embedded in concrete pad
- Direct on compacted farm yard gravel



Axle pad with steel ramps direct on concrete / pavement.



Embedded in concrete pad with concrete ramps.



Direct on farm yard compacted gravel with gravel ramps.



Direct on farm yard compacted gravel with gravel on steel ramps.



Level with gravel in concrete base.

FARM SCALE Benefits, Features, Specifications

KEY BENEFITS

KEY FEATURE / SPECIFICATION

Truck Capability

Super B-train tri-axle truck weighing

2 Platforms: Each Length 14 ft (168 inches) x 30" wide
80,000 lb GVW on 6 load cells

Tri-axle truck weighing

2 Platforms: Each Length 12 ft (144 inches) x 30" wide
80,000 lb GVW on 6 load cells

Tandem axle truck weighing

2 Platforms: Each Length 7ft (84 inches) x 30" wide
60,000 lb GVW on 4 load cells

Optional steel ramps

30" wide x 17" long x 6" high

Ease of operation

Hi-visibility Remote display

Large bright 4.5" LED display with stop-go traffic light guide

Touch-free auto-weighing,
fully automatic data capture

No driver operation or scale attendant required
Remote display stop-go traffic light provides signalling to driver
Software Data Management option

Touch-free Automatic Ticket printing

Printer ticket with date, time, axle/group weight, total weight
Continuous roll ticket printer
No manual feeding slips or removing tickets

Ease of disassembly, transport
and reassembly

Fast and easy to assemble
100% quick disconnect molded Amphenol connector cabling
Forklift / skid steer portable for use in multiple locations
12 & 14 ft scales in two sections for ease of transport
Built-in lifting lugs. Zinc coated load cell bolts for corrosion resistance

Accuracy

High Accuracy

0.25% FS on axle weight and 1%FS or better on GVW
20lb graduation size

Verified Accuracy

Independently verified 1% FS GVW by PAMI, SK
(Prairie Agricultural Machinery Institute)

Factory calibrated

Traceable weights

Versatility

Low profile platforms, easy to drive up on

Only 6" height

Use anywhere on compacted
farm yard gravel

6 off 4" x 26" wide load cell support area per platform
Eliminate steel ramps by using gravel ramps

Install on concrete slab with approach
ramps, or pavement

Large load cell supporting contact area
Drawings available for concrete slab and approach ramps

All weather operation

Operating Temperature -60°C to 80°C
Electronics require protection from extreme cold
Compensated Temperature -10°C to 40°C

Flexible Power / Remote field operation

Mains AC 110-240 VAC 50/60Hz
Optional battery DC power supplies for electronics
Optional industrial solar power system for total portability

Long home run cable for field access

Home run Y-cable, 50 ft or longer on request

Flexible positioning of remote display

Remote display connection cable, 150ft or longer on request



FARM SCALE Benefits, Features, Specifications

KEY BENEFITS

Durability

Proven durability under the toughest conditions

Extremely long service life

Super duty load cells, high reliability

High clearance for farm gravel, rocks, snow and ice build up

All weather water & snow resistance

Rodent proof for farm operation

Environmental protected electronics

KEY FEATURE / SPECIFICATION

Super rugged construction

20 years or more

Model ML-1100-25K AXL, 25,000lb capacity
26" long, full platform width
Accuracy: typical error 0.03% FS

High 2" clearance under platforms

Load cells are IP67 rated
Rubber seals eliminate ice and sludge build up under load cells
Waterproof aluminum sum boxes

Rodent proof cabling: load cell, interconnect and Y-cable subject to availability

IP67 rated
Ticket printer to be protected from cold and rain

Superior Quality and Service

Fast & responsive after sales support

Knowledgeable technical support factory direct from Saskatoon SK
100% guaranteed to speak with a real person technical specialist for support during office hours
Remote trouble shooting and diagnosis
Ample spare part availability
Minimize down time
Unlimited support, tel. or email

Long warranty periods as standard (years)

Platform structure: 10 years
Load cells: 5 years
Electronics, printer & cables: 2 years

Quality load cells

Model ML-1100-25K AXL load cell
Fully Made in Saskatoon, SK, Canada
USA Steel
Local economic sustainability

Weigh platforms

Fully Made in Saskatoon, SK, Canada
Canadian Steel
Local economic sustainability

Quality cables: load cell and interconnect

Load cell cable Made in USA
Molded interconnect cable, Made in Canada from USA cable
Local economic sustainability

High-end industrial electronics

Made in Canada and United Kingdom



Contact Massload Today

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