

# RDS TECHNOLOGY

TOPCON POSITIONING GROUP

## On-board weighing solutions



GO THE **LOADMASTER**  
WEIGH FOR LOADERS  
AND TELEHANDLERS

**Load it right  
First time, every time.**

Reduce fuel & machine wear,  
save time and increase efficiency

**Position**  
Partners

*Shaping New Dimensions*

# Loadmaster α100

on-board weighing solutions for loaders

Advanced on-board weighing system specifically designed for wheeled loaders operating in the toughest environments.



**The RDS Loadmaster α100 is a CAN-based system that combines cutting edge sensor technology and signal processing techniques to deliver precise and consistent weight information and sets a benchmark for the industry.**

Loadmaster α100 has been designed to operate within the fastest loading environments and toughest of conditions compensating for uneven, sloped ground and restricted loading areas reducing cycle times and maximising tons per hour performance.

Loading correctly first time eradicates return trips to the stockpile reducing vehicle movement, fuel usage and machine and tyre wear. Plus, you can opt for a Trade version that enables you to transact from your weight figures.

## BENEFITS

Colour touch screen display for intuitive operation	Multiple active job capability
Dynamic weighing technology uses accelerometers, enabling superior weight accuracy & repeatability in tough terrains	One or 2-way communication with back office
Hydraulic oil temperature compensation	Faster operation with static and dynamic weighing modes for 'weighing on the lift'
Target load- set individual product target	Split loading
GPS product recognition	Multi-channel and grand total summary providing load accumulation for up to 10 attachments
Reversing camera input	XML data output via serial, ethernet and USB memory stick for safe and efficient data handling
Adjustable weighing height to suit specific application	Printer option for hard copies of load summaries, totals etc.
Pre-set Tare function for pallets and containers	Calibration 'Nudge' to match site reference
SQL database functionality	Internal audible alarm
Stores, multiple job and blend capability with advanced memory job search and report function	

## TECHNICAL SPECIFICATIONS:

Operating voltage	10-30 Volts DC
Temperature range	-20 to +70°C
System accuracy	+/-2% of capacity
Sensor range	0-400 bar
EMC protection	Complies with 2004/108/EC IOS 14982
Warranty	1 year
Env. protection	Instrument sealed to IP65

# Weighlog α10

on-board weighing solutions for compact loaders



**The RDS Weighlog α10 incorporates the latest colour touchscreen technology providing a user-friendly on-board weighing system that can be used for trailer and hopper loading, batch blending or check weighing.**

Loading correctly first time maximises productivity, reduces vehicle movement, fuel usage and machine and tyre wear.

Suitable for use with up to 10 different attachments e.g. buckets or forks, the system can be retrofitted onto compact wheeled loaders, telescopic handlers, forklifts and skidsteer type loaders.

## BENEFITS

Colour touch screen display for intuitive operation	Multi-channel and grand summary providing load accumulation for up to 10 attachments
Target load ensures correct loading of vehicles or product	Printer option for hard copies of load summaries, totals etc.
Accurate record keeping, traceability & stock management	Calibration Nudge to match site reference
Communication via SD card & USB memory stick for safe and efficient data handling	Internal audible alarm
Static and dynamic weighing modes for 'weighing on the lift'	

## TECHNICAL SPECIFICATIONS:

Operating voltage	10-30 Volts DC
Temperature range	-20 to +70 °C
System accuracy	+/-2% of capacity
Sensor range	0-250 bar
EMC protection	Complies with 2004/108/EC
Warranty	1 year
Env. protection	Instrument sealed to IP54

# Loadmaster α50

on-board weighing solutions for wheel loaders



**The RDS Loadmaster α50 is a highly accurate, onboard weighing system for loaders that helps increase loading efficiency, cutting vehicle movements on site, increasing safety and ensuring trucks are correctly loaded first time.**

## BENEFITS

Colour touch screen display for intuitive operation	Multi-channel and grand summary providing load accumulation for up to 10 attachments
Target load ensures correct loading of vehicles or product	Printer option for hard copies of load summaries, totals etc.
Live last bucket "tip-off" facility	Static and dynamic weighing modes for 'weighing on the lift'
Net weighing for pallets and containers	System pause button
Accurate record keeping, traceability & stock management	Calibration Nudge to match site reference

## TECHNICAL SPECIFICATIONS:

Operating voltage	10-30 Volts DC
Temperature range	-20 to +70 °C
System accuracy	+/-2% of capacity
Sensor range	0-250 bar
EMC protection	Complies with 2004/108/EC
Warranty	1 year
Env. protection	Instrument sealed to IP54

# Loadex 100

on-board weighing solutions for excavators

An easy-to-use weighing system for use on both tracked & wheeled 360° degree excavators.



## BENEFITS

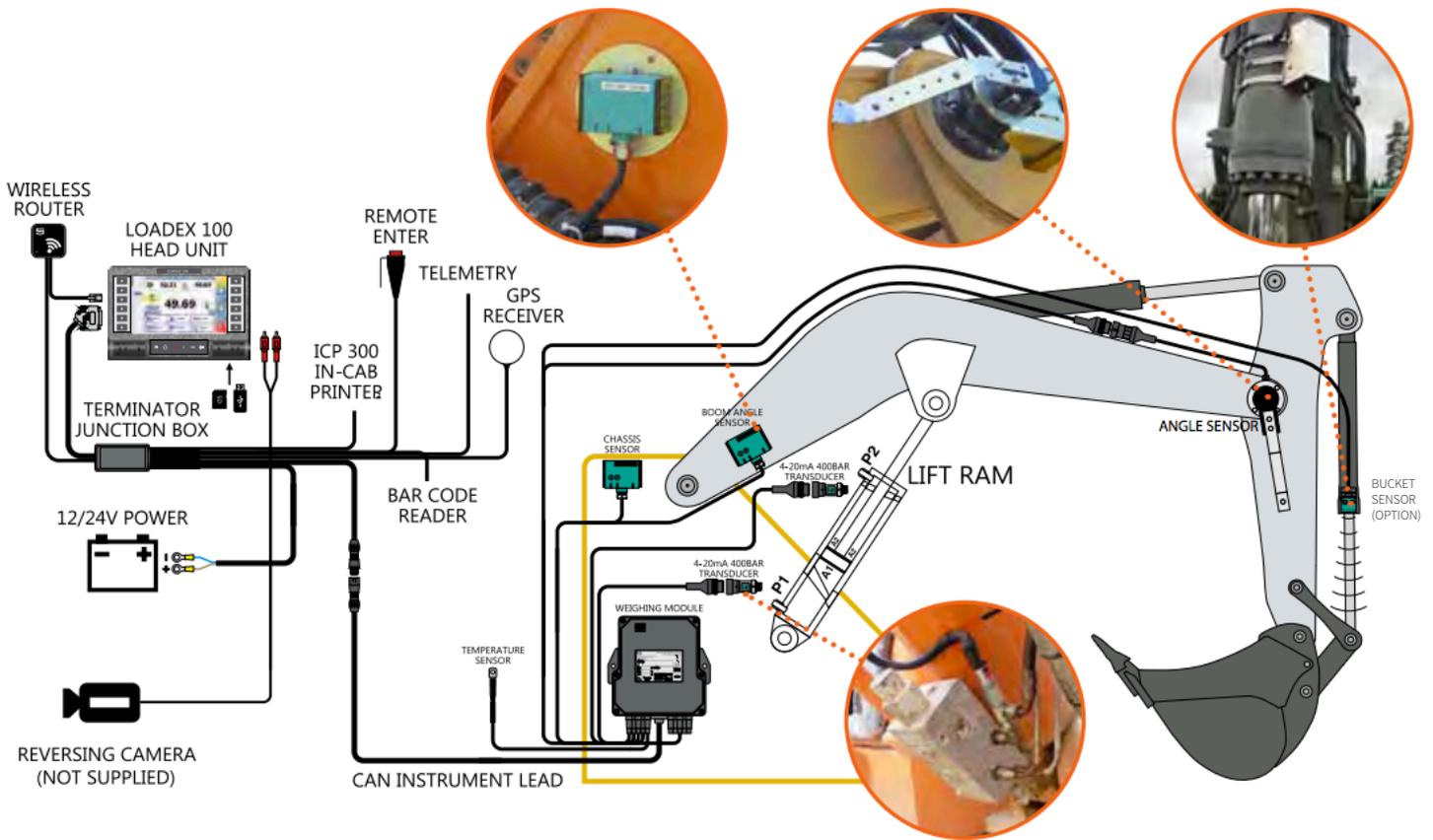
Colour touch screen display for intuitive operation	Multiple active job capability
Dynamic weighing technology with superior accuracy and repeatability in tough terrain	One or 2-way communication with back office
Accurate weight information within normal operating temperatures	Faster operation with static and dynamic weighing modes for 'weighing on the lift'
Target load to ensure correct loading of vehicles or product	Split loading (truck & trailer)
GPS product recognition for automatic product selection	Multi-channel and grand total summary
Reversing camera input	Safe and efficient data handling
Adjustable weighing height to suit specific application	Printer option for hard copies of load summaries, totals etc.
Pre-set Tare function for pallets and containers	Quick and easy calibration adjustment to match site ref.
Live last bucket 'tip off' at any position	Set to alarm at overload threshold
Ease of use and interfacing with ERP systems	Accurate record keeping, traceability & stock management

▶ **With the ever increasing focus on productivity, Loadex 100 has been designed to operate within the fastest loading environments maximising tons per hour performance.**

This easy-to-use system gives operators accurate bucket weight information at their fingertips, to increase productivity and reduce machine wear.

With the ability to store data for accurate record keeping, traceability and stock management, Loadex 100 is a flexible solution that can be customised to suit a wide range of earthmoving applications, attachments and accommodate a variety of active jobs simultaneously.

# Application guide



# Quick reference guide

This is the weight you want to load on the vehicle. As you load, the figure will decrease to show how much is left to load.

**Weight in bucket**  
This shows the individual bucket weight.

**Total loaded so far**  
This shows the total loaded, starting at 0.00 and increasing as you load, to show how much has been loaded so far.

**Note:** The 'hard keys' may be used instead of the adjacent touchscreen buttons

**Boom Height Indicator**  
Touch any part of this box to display extra functions:  
Split Loading (Trailer)  
Select Driver  
Reversing Camera Select ('1')  
View job list  
Create new job

**Power On/Off button**

**Select pre-set jobs 1-5**

**Return to home screen**

**Select store references**

**Select 'set-up' menu**

**SD Card**

**Zero lift routine**

**Pause weighing routine or 'clear last entry'**

**Automatic/manual weigh entering**

**'Live Static Tip Off' select**

**Search/select job report**

**Clear home screen totals and reset for next load**

**USB Port**

**Accept load entry (or use remote enter button)**

**menu/clear last load entry**

# iSOSYNC software

for Loadmaster α100 and Loadex 100

Cost effective two-way remote communication with a central computer for the transfer of job data.

Ensures clear and concise instructions sent to loader operator upon arrival minimising error

Enables productivity management, improving operational efficiency

Measures tons per hour performances

Identifies site bottlenecks by tracking entry and exit times

Traceability of hazardous materials



**Why have a standalone scale system fitted to your loader or excavator when it can be linked to iSOSYNC PC software enabling control of your loadout operation, inventory control, productivity & traceability management?**

iSOSYNC software can be used with either Loadmaster α100 or Loadex 100 and allows the rapid transfer of job information from a central computer to the loader or excavator and the resultant load information sent back to the PC upon completion.

The system can be one or two-way and is designed to operate fully automatically and without changing the loading routine for the mobile operator.

Job instructions are sent direct to the loader operator. After each vehicle is loaded and the 'Clear' button pressed to reset the instrument, the loading record is transmitted back to the central computer and can be logged into the load management software.

**iSOSYNC contains reference lists of names selected from drop down boxes and assigned to a job;**

Customers	Drivers
Products	Destinations
Trucks	Locations
Hauliers	Notes
Job Name	Mixes



Improves safety  
eliminating  
unnecessary  
vehicle and  
personnel  
movements

Monitors over  
and under  
loader

Provides an  
immediate  
record of  
load data for  
invoicing and  
stock control

Fast data transfer  
speeds operation  
enabling operators  
to load more trucks  
per shift

#### CONNECTIVITY OPTIONS

- USB
- TCP/IP over Ethernet LAN cable
- Wi-Fi Ethernet Module
- 3G Router (requires SIM for 1 way email or Fixed IP SIM for 2-way data transfer)
- RS 232 Serial port 2869 MHz radio modem kits;
  - Base kit connected to PC
  - Mobile kit connected to loader

#### REPORTING

Job reports can be listed according to time, date(s), job number, job name, ticket number and machines and stores references.

# Product Comparison

APPLICATIONS	Loadmaster a100	Weighlog a10	Loadmaster a50	Loadex 100	IsoSync
Check weighing	✓	✓	✓	✓	
Vehicle loading	✓	✓	✓	✓	
Pallet weighing	✓	✓	✓	✓	
Batch/blending	✓	✓	✓	✓	
Trade-approved	✓				
Stock & customer management	✓	✓	✓	✓	✓
Trailer weighing	✓				
<b>FEATURES</b>					
Colour touchscreen	✓	✓	✓	✓	
SQL database	✓			✓	
XML data output	✓	✓	✓	✓	
GPRS & Wi-Fi Connectivity	✓			✓	✓
GPS product recognition	✓			✓	
Reversing camera option	✓			✓	
Overload warning	✓	✓	✓	✓	
Overload logging	✓	✓		✓	✓
Live last bucket	✓	✓	✓	✓	
Target weight	✓	✓	✓	✓	
Load accumulaton	auto/man	auto/man	auto/man	auto/man	
Lift speed compensation	✓	✓	✓	✓	
Slope compensation	✓			✓	
Temperature compensation	✓			✓	
Attachments	10	10	10	10	
Printer option	✓	✓	✓	✓	
Telemetry option	✓			✓	
SD card data transfer		✓	✓		
USB data transfer	✓	✓	✓	✓	✓
Scanner/RF ID tag input option	✓				
*Accuracy (+/-%)	1%	2%	2%	3%	
*Accuracy is dependent on correct operation					

## ABOUT US

Position Partners is Australia's premier provider of positioning and machine control solutions for surveying, civil works and building activities. At Position Partners, we are committed to increasing productivity for our customers and building lasting business relationships around high calibre positioning activities.

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