



**An advanced and trade  
approvable on-board weighing  
system specifically designed for  
wheeled loaders operating in the  
toughest environments**

The RDS **LOADMASTER  $\alpha$ 100** is a CAN based system setting a benchmark for the industry combining cutting edge sensor technology and signal processing techniques providing precise and consistent weight information.

With the ever increasing focus on productivity, **LOADMASTER  $\alpha$ 100** 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.

The RDS **LOADMASTER CL100** uses a 7" colour, resistive touch screen display and additional physical keys providing a modern and ergonomic operator interface.

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

The system continually measures hydraulic pressure using up to 4 sensors. The pressure signals are captured and filtered through a weighing 'arc' provided by inclination sensors measuring the angle of the main boom.

All signals are processed in the RDS Smart Box and the resultant weight calculation is sent to the terminal mounted in the cabin.

SQL database capability with up to 8 reference fields providing virtually unlimited inputs of products, customers, trucks, hauliers, locations, destinations, mix blends and notes. There is a blend facility with an infinite number of mixes and products.

Approved to MID Class Y (b) and OIML (UK only), it is suitable for use in commercial transactions.

Video input for switching head unit into reversing camera mode removes the need for additional screen, releasing valuable cab space.

There is an extensive sales, service and support network of RDS distributors.

FEATURES	ADVANTAGES
Colour touch screen display.	Clear, uncluttered display provides intuitive operation.
New dynamic weighing technology using inclinometers.	Superior weight accuracy and repeatability in difficult terrains.
Hydraulic oil temperature compensation option.	Accurate weight information within normal operating temperatures.
Target load.	Set individual product target. Ensure correct loading.
GPS product recognition.	Automatic product selection.
Reversing camera input.	One screen, two functions.
Adjustable weighing height.	Flexible according to specific application.
Pre-set Tare function.	Net weighing for pallets and containers.
Live last bucket 'tip off' at any position.	At the pile or above the truck.
SQL database functionality.	Ease of use and interfacing with ERP systems.
Stores, multiple job and blend capability with advanced memory job search and report function.	Accurate record keeping, traceability & stock management.
5 memorised quick pre-selections for repeat job set up.	Multiple active job capability.
GPRS and Wi-Fi connectivity options.	One or 2-way communication with back office.
Static and dynamic weighing modes for 'weighing on the lift'.	Faster operation.
Split loading.	Truck and trailer.
Multi channel and grand total summary.	Load accumulation for up to 10 attachments e.g. buckets, forks.
XML data output via serial, ethernet and USB memory stick.	Safe & efficient data handling.
Printer option with configurable output.	Hard copy of load summaries, totals, company logo product marketing.
Calibration 'Nudge'.	Quick and easy calibration adjustment to match site reference.
Internal audible alarm.	Set to alarm at overload threshold.
System "pause" button.	

#### TECHNICAL DETAILS

Operating voltage:	10 - 30 Volts DC
Temperature range:	-20 to +70°C operating
System accuracy:	Typically +/- 2% of capacity or better
Sensor range:	0 - 250 bar (others available)
EMC protection:	Complies with 2014/30/EU + ISO 13766 and with EN 13309:2010
Warranty:	1 year
Env. protection:	Instrument sealed to IP54 Sensor sealed to IP67

#### SYSTEM ENHANCEMENTS

**Telemetry** for fast and efficient load data transfer between loader and office.

**ICP 300** - Printer option for hard copy prints in the cab.

**GPS16** - Automatic product selection.

**Temperature Compensation** - Enhanced weighing accuracy.

#### ALSO IN THE RANGE

**Loadmaster 8000iX** - Weighing system for medium to large loaders with target weight entry, last bucket tip-off, temperature and angle sensing compensation, 1000 store customer & product database, data transfer and printer options.

**Loadmaster 9000i** - Trade approvable weighing to MID Class Y(b) and OIML Class III standards.



[www.topconpositioning.com](http://www.topconpositioning.com)



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