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

The RDS LOADMASTER α.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 α.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 a100 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

- Colour touch screen display.
- New dynamic weighing technology using inclinometers.
- Hydraulic oil temperature compensation option.
- Target load.
- GPS product recognition.
- Reversing camera input.
- Adjustable weighing height.
- Pre-set Tare function.
- Live last bucket ‘tip off’ at any position.
- SQL database functionality.
- Stores, multiple job and blend capability with advanced memory job search and report function.
- 5 memorised quick pre-settings for repeat job set up.
- Static and dynamic weighing modes for ‘weighing on the lift’.
- Live last bucket ‘tip off’ at any position.
- Multi channel and grand total summary.
- XML data output via serial, ethernet and USB memory stick.
- Calibration ‘Nudge’.
- Internal audible alarm.
- System “pause” button.

### ADVANTAGES

- Clear, uncluttered display provides intuitive operation.
- Superior weight accuracy and repeatability in difficult terrains.
- Accurate weight information within normal operating temperatures.
- Set individual product target. Ensure correct loading.
- One screen, two functions.
- Flexible according to specific application.
- Net weighing for pallets and containers.
- At the pile or above the truck.
- Ease of use and interfacing with ERP systems.
- Accurate record keeping, traceability & stock management.
- Multiple active job capability.
- One or 2-way communication with back office.
- Faster operation.
- Truck and trailer.
- Load accumulation for up to 10 attachments e.g. buckets, forks.
- Safe & efficient data handling.
- Hard copy of load summaries, totals, company logo product marketing.
- Quick and easy calibration adjustment to match site reference.
- Set to alarm at overload threshold.

### 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 8000X - 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.