



RDS Technology and Loup Electronics exhibit on-board weighing range at Conexpo 2017

Minchinhampton, September 2016

The wide range of RDS Technology's on-board/ payload weighing scales for the construction industry will be on show at the Loup Electronics/ RDS Technology booth S85120, at the ConExpo show in Las Vegas. The line-up will include: WEIGHLOG VUE, WEIGHLOG 3030, WEIGHLOG EX, iSOSYNC and the LIFTLOG 1000.

The **WEIGHLOG VUE** on-board weighing scale for wheeled loaders is a CAN based system combining cutting edge sensor technology and signal processing techniques. The WEIGHLOG VUE is designed to provide precise and consistent bucket weight information and emphasises the gains in productivity and profitability that can be achieved with such technology.

Designed to operate within the fastest loading environments and toughest of conditions, WEIGHLOG VUE reduces cycle times and maximises tons per hour performance.

Loading correctly first time eradicates return trips to the stockpile reducing vehicle movement, fuel usage and machine & tyre wear.

The WEIGHLOG VUE 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.



The product is designed with 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.

GPRS or Wi-Fi connectivity provides one or two-way communication with the back office to send and receive job information.

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

For smaller loaders and skid-steers, Loup offers the **WEIGHLOG 3030**, which also benefits from a colour touch screen display. This instrument is a user friendly on-board weighing system which provides accurate and consistent bucket and total load results, meaning stock management and check-weighing operations can be controlled more effectively.

The **WEIGHLOG EX** is a retrofittable scale installed on both tracked and wheeled 360 degree excavators and material handling machines to weigh the amount of net material load in the bucket or grab.

Up to two pressure sensors are installed into the hydraulic lift system, with the addition on machines with assistor accumulator cylinders, of up to two more compensation pressure sensors.

The pressure signals are captured, filtered and corrected by measuring the angle of the main boom using either an RDS Inclinometer or Mechanical Angle sensor.

When used dynamically, the pressures are captured through a set weighing zone. The system may also be used in static weighing mode; the boom can either be lifted to a set weighing position where the pressure is captured, or it can measure constantly in a “live” mode at any required boom height. Both dynamic and static weighing positions are adjustable by the operator to suit any job required, which will enable the machine to be used at its most efficient output.

Dipper arm position corrections are made from a mechanical angle sensor mounted on the boom to dipper arm elbow pivot. This provides fast and precise dipper arm angle measurement that is not effected by inertia g-forces or acceleration effects.

Slope corrections are made from another inclination sensor on the chassis.

As an added option, oil temperature compensation is provided by a clamp on temperature sensor. Ultrasonic technology is used to provide reliable and precise bucket position compensation.



All calculations are made in the WEIGHLOG EX Weighing Module, with the resultant calculation sent via CAN protocol to the WEIGHLOG EX terminal in the cabin. Load and store information is saved in the terminal where it can be distributed to an in-cab printer, modem or internal SD flash card.

iSOSYNC enables control of the loadout operation and inventory, productivity & traceability management.

The software can be used with either WEIGHLOG VUE or WEIGHLOG EX and allows the rapid transfer of job information from a central computer to the loader or excavator. The resultant load information is sent back to the PC upon completion.

The **NEW LIFTLOG 1000** is the latest product in the LIFTLOG range, offering +/- 0.5% accuracy for forklift trucks operating in the fastest loading environments.

It is a cost-effective weighing instrument that reduces loading cycle times and maximises tons per hour performance.

Additional information will be available at the RDS Technology/ Loup Electronics stand **S85120** in **South Hall 4** and online at rdstec.com.

Attached high-resolution photos include: WEIGHLOG 3030, iSOSYNC, LIFTLOG 1000

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RDS Technology, (rdstec.com) a Topcon Positioning Group company, supplies over 100 original equipment manufacturers worldwide with custom solutions, as well as supplying standard 'retro-fit' products through a network of specialist independent distributors in over 30 countries where customer service is the highest priority. Headquartered in Minchinhampton in the United Kingdom, RDS pioneered the use of electronics for agriculture and continues to lead in other sectors of mobile machinery.

