



INDUSTRIAL WEIGHING SYSTEMS OVERVIEW

Commercial & Industrial Weighing Equipment | Indicators | Software

Diverseco
Can Do



**WEIGHING SYSTEMS
CAN PROVIDE SO
MUCH MORE THAN
ISOLATED DATA**



CONVERTING OPERATIONAL CHALLENGES INTO NEW AND IMPROVED CAPABILITIES

WHEN YOUR OPERATIONAL EFFECTIVENESS RELIES ON THE USE OF ACCURATE, PRECISE, RELIABLE AND TRACEABLE WEIGHT DATA, YOU CAN DEPEND ON DIVERSECO.

Anyone involved in manufacturing, logistics, transportation, or at any other point along the supply chain will appreciate the important role that weighing technology plays at critical control points. Weighing technology has evolved considerably, enabling organisations to achieve their commercial goals and remain competitive. The evolution of weighing technology is clearly evident in the way data is now collected, distributed and used.

At Diverseco, we understand that weighing must provide so much more than just isolated weight data. In fact, the effective use of weight data can generate important commercial benefits, particularly when integrated in real time into operational and manufacturing processes, such as:

LOAD MANAGEMENT
PAYLOAD CONTROL
TRADING
SHIPPING & RECEIVING

BATCHING
RECIPE MANAGEMENT
QUALITY CONTROL
COUNTING

+ MANY MORE APPLICATIONS THAT INCREASE EFFICIENCY, PRODUCTIVITY, QUALITY AND SAFETY.

As agents for a number of the world's leading manufacturers, Diverseco can source solutions from the greatest range of weight measurement systems available.

From off-the-shelf weighing equipment, such as scales and balances, to fully customised turn-key weighing systems, Diverseco can meet your demands for products that deliver on price, functionality, quality, reliability, safety, durability and performance.

SETTING NEW STANDARDS IN INDUSTRIAL WEIGHING, MEASUREMENT AND CONTROL

Since establishment, a set of clear and consistent values have been an integral part of Diverseco's DNA. These values continue to play an important role in differentiating Diverseco from our competitors and are instrumental in our continued growth and success.

We are driven by the continuous improvement of our people, processes and operations; heavy investment in training and technology; and constant innovation.

It's for these reasons that Diverseco is renowned for embracing and driving innovation within the industry, including:

- › The development of digital load cells
- › The integration of interfaces for efficient data transfer
- › Enhanced security through the legal traceability of scale values
- › Improvements in equipment durability to provide maximum protection against hazardous conditions, extreme weather and rough usage
- › Wireless technology that enables unmanned weighing systems

DIGITAL TERMINALS & PROCESS CONTROLLERS

Diverseco can supply a range of fully programmable weighing terminals complete with custom weighing functionality, data handling capabilities and high-level process controls tailored to your requirements.

We supply weighing terminals and process controllers that possess powerful modular hardware and the concept of free programmability. They are designed and purpose built for use in demanding industrial weighing applications, such as:

- › Shipping & receiving
- › Stock & warehouse control
- › Batchweighing control
- › Filling control
- › Checkweighing
- › Vehicle & axle weighing



BULKWEIGHING CONTROLLERS FOR SHIPPING AND RECEIVING SYSTEMS

Our universal bulkweighing controllers for the shipping and receiving of bulk material capture the weight of incoming material and fill outgoing shipments to a preset target weight. This controller connects to all scales with strain gauge load cells and enables maximum throughput through fast signal processing, as well as accurate fill control through fast acting trend-sensing preact adjustment and weight tolerance control. The controller captures all relevant batch data for printing and data transmission. Operator prompting and permanent indication of status with clearly structured menus on colour screen ensure fast and error-free operation and minimum training requirements.



STOCK & WAREHOUSE CONTROL FOR GOODS-IN AND DISPATCH

Our NMI approved parts counting terminal for rapid parts counting, weighing and recording applications enables the capture, recording and transfer of precise weighing and associated operational data. Up to three scales of any type (such as floor, bench or precision) may be connected to the terminal. Parts count is calculated based on preset reference weights or by placing reference parts on the weigh platform. Parts can be counted by adding parts into an empty container or by removing parts from a filled container. Apart from count and weight, all other application-relevant data for goods-in or other weighing stations can be captured, printed or transferred to a host computer.



MULTI-MATERIAL BATCHING OPERATION, AUTO/MANUAL MODES, SEQUENCING AND FULL REPORTING

Our range of programmable weighing terminals, batching controllers, batching consoles and setpoint controllers can be completely customised to suit the specific batching requirements of your site. Readily available for simple single product batching of up to 20 plus ingredients, our controllers feature internal logic for adjustable pauses, timers, discharge sequences and external outputs. Custom-programmed batching systems are also available for complex batching needs, making them an extremely cost-effective alternative to overly complex PC-based batching systems.



BATCHWEIGHING CONTROLLER – NMI APPROVED - FOR MANUAL & AUTOMATIC BATCHING OF SOLIDS & LIQUID

Our batchweighing controllers are perfect for automatic weighing of solid and liquid materials in the chemical, pharmaceutical, food and other industries. The controller connects to load cells or scales of all types and weight ranges, and is suitable for: automatic multi-ingredient batchweighing in hoppers, mixers or tanks; recipe batchweighing on floor and pit-mounted scales, including control of manually added ingredients; and subtractive batchweighing (weighout) from hopper scales.

The system controls fast and dribble feed of valves, screw feeders or similar for up to 31 materials. Batching sequences are recipe controlled, with recipes containing functions for automatic or manual weighing, weight tolerance check, operator inputs and synchronisation steps.



FILLING CONTROLLER FOR FULLY AUTOMATIC OPERATION WITH EXTENSIVE I/O CONTROL

The functionality of the fill controller, which conforms with ISO 9001 standards, includes: accurate fill control through fast signal processing, trend-sensing preact adjustment and weight tolerance control; high operational security through extensive monitoring functions and simple operator control; and recording of all data of single or multiple container fills with optional hardcopy printout and data transfer.

The controller controls the filling lance, fill valve and the container movement onto and off the scale, providing maximum throughput. Operator prompting with clearly structured onscreen menus ensures fast and error-free operation and minimum training requirements.



CHECKWEIGHING

Our checkweighing controller stores target weights and tolerance zones for up to 99 different articles, and will connect to loadcells or scales of all types and weighing ranges, such as conveyor belt scales, roller track scales, and pit-mounted scales. Operation can be dynamic or in start/stop mode, allowing for settling of the scale. Weight deviation from target, standard deviation or mean weight is displayed, with over and underweight items rejected via control signal outputs.



VEHICLE WEIGHING TERMINALS AND CONTROLLERS

Diverseco's vehicle weighing systems have been specifically developed to provide you with cost-effective ground level weighing infrastructure to detect overloading of vehicles. As such, our vehicle weighing systems are an effective way to maximise payloads and prevent fines for both axle and total load infringements under demanding Chain of Responsibility (COR) requirements.

The terminals we use are highly sophisticated, fully programmable devices that can easily interface with your IT system through various protocols. This ease and flexibility of data management and transfer allows for maximum use of the collected data. This enables you to take control of mass management processes, by automatically: providing truck classification information; measuring the axle group weights of vehicles using the weighbridge; comparing the measured axle weights with pre-entered legal maximum limits; alerting operators to overloading; recording (in tamper-proof memory) any overload breaches; providing a date stamped paper ticket displaying all axle group weights and the total vehicle gross weight; recording all transactions; operating alarms, boom gates, sliding gates, warning sirens, and flashing lights to warn/prevent overloaded vehicles from leaving the site, and more.

COMMERCIAL & INDUSTRIAL WEIGHING EQUIPMENT

Diverseco high performance weighing equipment and systems deliver consistent, precise measurement data for the most challenging static and dynamic weighing applications and the most hostile environmental conditions.

QUALITY, BEST-OF-BREED WEIGHING INSTRUMENTS

Regardless of what type of weighing instruments you need, Diverseco is here to help. Our comprehensive range of commercial and industrial weighing equipment can be engineered to form a complete made-to-measure solution for any site.

LABORATORY SCALES

RETAIL SCALES

BENCH & PORTABLE SCALES

COUNTING SCALES

PALLET & FLOOR SCALES

OVERHEAD TRACK SCALES

CRANE & HANGING SCALES

WEIGH BAR & BEAM SCALES

HOPPER SCALES

SILO & TANK SCALES

BELT WEIGHERS & CONVEYORS

WEIGH-IN-MOTION SYSTEMS

WEIGHBRIDGES

WHEEL WEIGH PADS

SHIPPING CONTAINER SCALES

LOAD CELLS & MOUNTING KITS

ALL THE FEATURES & FUNCTIONS YOU'LL EVER NEED

We understand that your decisions, operations and profits rely on accurate, reliable, traceable data. That is why we engineer and supply robust, precise, easy-to-use, feature-rich industrial weighing equipment that enable our customers to attain new and improved capabilities.

- › Dynamic and static weighing applications
- › NMI trade-approved scales
- › AMSA compliant scales
- › Quality manufacturing
Built to Australian Standards
- › Weighing resolutions from 0.01 mg
- › Weighing capacities to 200,000 kg and beyond
- › Waterproof IP65, IP67, IP68 and IP69 ratings
- › Full data integration capabilities
- › Intrinsically safe models
- › Overload protection mechanism
- › Robust, reliable, hermetically sealed digital load cells with over-voltage protection
- › Overload warning system
- › Designs that can withstand shock loadings & torsional stress
- › Self-aligning, levelling legs to protect load cells from impact damage
- › Superior corrosion resistance
- › In-ground or surface mounted designs
- › Large, bright digital LED weight displays
- › Ergonomic design - for ease and safety of use
- › Counting functionality
- › Wireless infra-red remote control
- › Hold and tare features
- › High external resolution
- › Industry-leading warranties

AFTER-SALES SERVICES & SUPPORT SERVICES

READINGS YOU CAN RELY ON

While we all know that measurements are useless in the absence of a correctly calibrated weighing instrument, it's all too easy to forget that sooner or later the accuracy of weighing equipment changes due to factors such as: drift, general 'wear and tear', being overloaded, mishandled, dropped or neglected.

These factors can cause equipment to provide incorrect measurements, which cause issues such as: overfilling and undercharging, underfilling and overcharging, reduced product quality, materials waste and infringement of compliance requirements.

With Diverseco, you enjoy the peace of mind that comes from knowing that your measurement devices are functioning exactly as required, and that support is only ever a phone call away.

This is because Diverseco has service centres in every mainland state, staffed by large teams of qualified tradesmen and NMI Certified Technicians who are able to service, test, calibrate and certify scales of all types and capacities – ranging from sensitive laboratory balances through to 200 tonne capacity, trade approved weighbridges.

Not only that, we have immediate access to a large inventory of spare parts for the equipment we supply. What we don't stock, we can quickly access through our supply network.

**DIVERSECO HAS AN
UNRIVALLED CAPACITY
TO RAPIDLY RESPOND
TO CUSTOMER NEEDS,
KEEPING DOWNTIME TO
THE ABSOLUTE MINIMUM**



DELIVERING SUPERIOR VALUE VIA OUR PROBLEM-SOLVING EXPERTISE AND INNOVATIVE TECHNOLOGIES

diverseco.com.au

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