Handling bulk goods safely

Weighty details

Gather data on goods and freight on the spot, easily and with highest precision.

Digital measuring technology

A big advantage compared with other technologies is the digital frequency signal of the DIGI SENS sensors. The signal level is high and our systems are largely immune to all types of interference. Their specific advantages, such as long-term stability, low energy consumption, simple interfaces and mechanical rigidity, make the sensors the ideal choice for many different applications. The system adapts automatically to the working speed of tipping operations. Thus tipping can be carried out at high speed, making operation especially economical.

Modules for mobile weighing solutions

Eleiro evaluation computer:
The „brain" of every mobile weighing system. Parallel processing of data from up to ten instrument transformers from the DIGI SENS range, such as load cells, accelerometers and inclinometers. 200-1000 measurements per second and cell. Certified according to OIML R51. Interfaces are modularly extensible. Web interface for configuration and readout of measuring data. LCD-Display, waterproof housing.

Accelerometer:
Accelerometer for correct weighing of objects in motion.

EleiroTouch display unit:
Assists the driver when communicating with the system.

Inclinometer:
The inclinometer compensates exactly the tilt of the vehicle.

Heavy-duty load cells:
Every cell is calibrated and certified. A cell can be exchanged at any time without new calibration of the whole system.

DIGI SENS AG

Since 1993 DIGI SENS has developed, produced and marketed digital measuring systems based on the oscillating-wire sensor. With its simple-to-use and robust systems DIGI SENS rapidly became market-leader for dynamic catchweighing systems in Europe.

Our mission is the logging of weight as a means of measuringquantities and material fl ows. In this way we play our part in reducing costs and husbanding resources.

ISO 9001 ZERTIFIZIERTES QUALITÄTSMANAGEMENTSYSTEM SWISS ISO

swissmade

DIGI SENS AG
Digitale Messtechnik
Freiburgstrasse 65
CH-3280 Murten
Phone.: +41 (0) 26 67298-76
E-mail: admin@digisens.ch
www.digisens.ch

DIGI SENS

Weighing in motion 04/2017/800 · © Digi Sens, Bucher Guyer, Ochsner, Wittke, Labrie, Nido Flughafen Zürich, Port of Tirana

Weighing 4.0

Weighing in motion

Robust measurement technology in tough environments. Better transparency, saving of resources and higher safety.

Weighing technology from DIGI SENS ensures security and fairness in waste disposal.

Excellence in integrated weighing application

DIGI SENS

The new dimension in mobile weighing

Wherever you go, you can trust DIGI SENS weighing technology

Digital measuring technology, proven thousands of times over. Long-lasting maintenance-free operation, at any tilt, in any weather and in motion.

Final weight check before the container is stowed in the plane.

Drive-over weighing system (axle load)

Calibrated weighing on the move

The DIGI SENS axle load weighing system is a low-price and space-saving alternative to conventional weighbridges. The same width as the vehicle, but only 80 cm long, this weighing system ensures more safety everywhere.

The weight is measured as the vehicle drives slowly across the scales. The total load is calculated from the sum of the axle loads. An automatic check on vehicle speed and direction prevents erroneous measurements. Accuracy of 0.2 % @ 40 tons max. load, resulting in 4 kg at a car of 2 tons weight.

Christoph Röthlisberger, head of production site Oberburg, BLS AG: "With the rail weighing system from DIGISENS we are in the position to do an easy and reliable weighing of each and any wagon."

Dynamic catch-weighing

Incentives for more fairness in waste disposal

Catch-weighing devices record the individual weight of each and every container. DIGI SENS measuring technology for this application is market-leader in Europe and is an indispensable add-on for front, side and rear-loaders. Software developed specifically for this application ensures error-free and simple operation.

Accuracy of 0.5 kg according to container and system ('legal-for-trade').

Mario Gilbert, Waste Collection Manager, Veolia Environnement: „At Veolia, our Wittke StarlightTM are the most cost effective trucks in our frontloader fleet. Their Digiload scale system is reliable, very accurate and the weigh in motion system saves us time."

On-board weighing systems

Always know what you've got...

The on-board weighing system records thetotal payload of the vehicle. It is suitable above all for invoicing whole collection areas or for big industrial customers. Any vehicle chassis can be retrofi tted with a DIGI SENS-weighing system. There is a large selection of robust components available to suit any construction or weighing application.

A typical resolution would be 10 kg, in special cases 5 kg.

Worldwide transparency

Sensors mounted on the vehicles, in the road or on the rails deliver precise measuring results reliably and in real-time. The components work under the hardest conditions, with low maintenance and are inherently safe. When identifi cation and position data are added to the weight information, logistic processes can be properly planned and controlled. The processed data form a solid basis for higher level planning, provisioning and invoicing.

Weights

- Dynamic catch-weighing, front side and rear. (5)
- On-board weighing systems. (6)
- Drive-over weighing systems. (7)
- Rail weighing systems. (8)

Evaluation / Identification

RFID · Barcode · QR-Code · GPS

Data transmission

- Internet
- GPRS
- Interface
- Memory card

Application

- Customers / Quantities
- Amount of material
- Tracing / Checking
- Invoicing / Remuneration
- Planning of
  - production
  - routes
  - purchasing

Robert Hauser, Current Engineering Manager/ CTK, Bucher Guyer AG: "The city-cleaning authorities in Berlin allow a maximum load of 3.5 t on the footpaths. With weighing technology from DIGI SENS we are always on the safe side".

Plan the optimum route using data on salt stocks and consumption.

More transparency in rail transport with rail weighing systems.

DIGI SENS sensors for static and dynamic measurements on a test-bed for railway bogies.

Precision transducers for use in hard environments, such as high protection class or extreme temperature ranges.

Automatic determination of the tipping weight in any orientation.

Rail weighing systems

Safety in rail transport

Four sensors mounted on the rails form the ingeniously simple DIGI SENS rail weighing system. Axle load is measuremed while rolling along at max. 5 km/h. Automatic attribution of the axle weights to the wagons.

Exact weighing of the railway vehicles means that overloads can be avoided, uneven loading detected, material fl ow monitored and safety guaranteed.

The DIGI SENS rail weighing system can be installed very simply and quickly. No need to cut out a section of rail for reworking. In contrast to strain gauges the sensors can be mounted directly in situ.

DIGI SENS