



sartorius  
mechatronics

## Pendeo<sup>®</sup> Truck Intelligent Truck Weighing



turning science into solutions



## **Our Experience – Your Advantage.**

As one of the leading global companies in the field of industrial weighing technology, we implement robust large-scale weighing solutions on a daily basis. Deeply rooted in research and development, closely connected to our customers and technology partners.

For more than 100 years, the name Sartorius has stood for high-precision weighing solutions for manufacturing and laboratories. Since 1999, under the name Sartorius Mechatronics, our long industry experience has been combined with the expertise of the Philips Wägetechnik brand and its successor GWT, who have themselves made essential contributions to electronic weighing in the industrial heavy goods sector.

From this solid basis, we develop and produce products for use in reliable systems for Truck weighing. These are as easy to install as they are to use and maintain – and ensure problem-free operation.

Any place, any time, our global service and sales network is available for you all over the world. It is with good reason that notable customers, systems engineering companies and supply companies rely on the quality and performance of our products. And not only for Truck weighing.

# The Next Generation of Performance. Weighbridges with Intelligent Weighing Technology.

The digital Pendeo® Truck load cell takes the performance of our products to the next level – and makes the setup, calibration and operation of weighing systems now even easier and more reliable. Thus the Pendeo® Truck expands the Sartorius product range with some unique features: The digital transfer signal is even less susceptible to faults and ensures precise, reliable operation – at any time. Thanks to its identical height, the Pendeo® Truck is 100% compatible with our analog models. Replacement is thus possible without any technical changes to the installation kit or weighbridge.

## Easy to Install

In combination with the Combics Pro Terminal, the new digital Pendeo® Truck load cell makes full use of its strengths. The automatic function identifies all connected load cells. The parameters for the calibration are already saved in the load cell. This eliminates the need of entering load cell data. Equally easy is the allocation of load cells to their position under the weighbridge. This saves a lot of time in troubleshooting. In this generation of load cells, we continue to use our PR 6221 model, which has proven itself over many years in thousands of road vehicle weighbridges.

## Easy Corner Correction

As with all load cells made at our Hamburg plant, the load cells of the Pendeo® Truck range are opti-

mally adjusted at the factory. However, should it be necessary to make an adjustment for mechanical reasons, this can be done without the need for a potentiometer or soldering in resistors. The corner signals are harmonized with each other by a special algorithm.

## Reliable Operation

Thanks to the expanded diagnostic functions, the Combics Pro and Pendeo® Truck "team" offers enhanced reliability for error-free operation. All data can be displayed at any time simply by pressing a key. From load cell information such as nominal capacity or serial number through to status data such as temperature status or potential overloading. This ensures unrivaled reliability and allows a continuous monitoring of the load cells.

Naturally, the overall system also gives the measurement chain maximum resistance against lightning strike. This is possible thanks to the integral approach, in which all components from load cell, cable junction box and connection cables through to the Combics Pro interact perfectly with each other.

Of course, all components that are installed directly on the weighing platform comply with the requirements of the highest protection classes IP68/69k





## Flexible Components in Use.



## All Advantages at a Glance:

- ▶ Easy to install
- ▶ Fast corner correction possible
- ▶ Immediate error recognition
- ▶ Strong signal, not susceptible to interference
- ▶ Maximum resistance to lightning strike and environmental influences
- ▶ Intuitive operation
- ▶ 100% compatibility with analog Sartorius load cells



Pendeo® Truck



PC

Combics Pro

Various printers

PR 6024/68S  
Cable junction box

PR 6024/62S  
Power supply unit

# Maximum Precision From a Single Source. The Components.



## Digital Pendeo® Truck Load Cell

The Pendeo® Truck builds on the precision, stability and quality of proven Sartorius products with the addition of some unique features: From its digital output signal that is not susceptible to interference through to new communication and diagnostic options.

At the same time, the Pendeo® Truck naturally also offers all the advantages of our analog load cells, such as extremely short weighing times thanks to the high restoring force force of the measuring element or the reliable compensation of mechanical movements and thermal expansion.

- Ideally suited to use in weighbridges
- Standardized, maintenance-free, extremely compact design
- Extremely robust design in hermetically sealed stainless steel housing
- Special strain-gauge technology for significantly improved lightning protection
- High overload range (up to 150%)
- 100% compatible with PR 6221
- Reaches stability quickly which ensures short weighing times
- High EMC compatibility (10 V/m)
- Suitable for use in ATEX zone 2/22
- Additional reliability thanks to diagnostic function

## PR 6021/01 Installation Kit

If you want to avoid premature reduction in measuring accuracy or even failure of the scales through wear, the issue of "installation" should not be ignored! For that reason, we offer customized installation kits, which, together with the load cells, form a perfectly coordinated system – and which ensure optimal functioning and a long lifespan for our products. The properties of the materials used and the geometries are optimally matched to the load cells. This ensures the best roll-off and fast reset properties throughout the entire life cycle.

- Optimal supplement for the load cell
- Ensures optimal load introduction

## Combics Pro TRUCK Application

The Combics Pro is above all characterized by its intuitive operator guidance and, with the TRUCK application, is the first choice for reliable Truck weighing. For this, the Combics Pro offers four different weighing procedures, with an individual ticket being created for each weighing process. The layout of the ticket can be individually adapted.

Different databases and an internal alibi memory with up to 50,000 entries ensure the greatest possible reliability for your measurement results. All information on vehicle, load, address, user, etc. is recorded fully automatically and is thus available for further processing. The statistics tool and a pre-defined PLC program for traffic lights round off the range of functions.

Connections for an external keyboard and for up to three printers, various outputs and an extremely wide range of PC tools ensure maximum connectivity.

- Intuitive operator guidance
- Large, easy-to-read color display
- High-quality IP69K stainless steel housing
- Extensive database function and internal alibi memory
- Data security through allocation of user rights
- Batching function on Truck scales



### PR 6124 Connection Cable

To provide a reliable power supply for the load cells and secure data exchange in the measurement chain, Sartorius offers connection solutions which are specially adapted to requirements in weighbridges. The highest possible value is thus placed on reliable quality in the PR 6124 P supply cable, as well as in the PR 6124 D data cable.

Both cables are designed with a shield and have casing made from polyurethane. This material is characterized by particularly high durability and elasticity. It can also be used for many years due to its high resistance to ageing.

Both cables are available in different lengths.

- Shielded supply cable for reliable power supply to the load cells
- Double-shielded data cable ensures fast and reliable communication between load cells and weighing electronics
- High resistance to chemicals and environmental influences ensures a long service life
- High elasticity ensures outstanding leak tightness at connection points – no flowing of the material as happens in conventional PVC cables



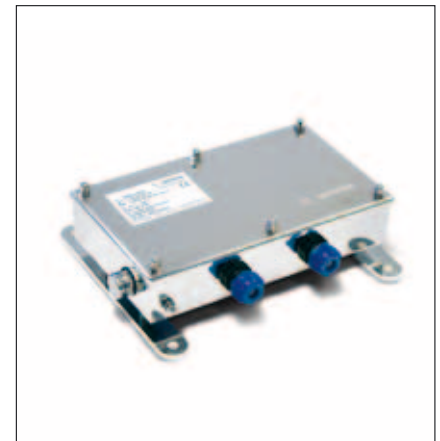
### PR 6024/68S – Digital Junction Box

The PR 6024/68S junction box is a connection unit for up to 8 load cells from the Pendeo® range. The color coding of the connection blocks enables intuitive connection of the load cells – there is thus virtually no risk of connection errors.

With protection classes IP68 and IP69k, the 1.4404 stainless steel housing complies with the highest requirements in the industrial sector.

A Gore-Tex membrane ensures continuous pressure compensation and prevents moisture from entering.

- High-quality stainless steel housing (IP68, IP69K)
- Connection of up to 8 Pendeo® load cells
- High EMC compatibility (10 V/m)
- Suitable for use in ATEX zone 2/22



### PR 6024/02S Power Supply Unit

The high-quality power supply unit ensures reliable energization for the load cells.

The compact stainless steel housing complies with the requirements of protection classes IP68 and IP69K and is thus designed for long, maintenance-free use.

- High-quality stainless steel housing (IP68, IP69K)
- Reliable power supply for up to 8 Pendeo® load cells
- Broad voltage input 100 V – 240 V
- High EMC compatibility (10 V/m)
- Suitable for use in ATEX zone 2/22



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