

SIWAREX WL200

The right load cell for every application



Weighing Technology

Answers for industry.



Precision from a single source – Weighing technology from Siemens

Your specialist for production and process automation offers you a wide range of load cells and weighing modules; this adds to the comprehensive spectrum of controllers, solutions for operation and monitoring, as well as sensors and actuators.

Using the proven Siemens automation solutions and SIWAREX weighing systems, you can automate all your scales. The weighing modules of the SIWAREX series that are completely integrated into SIMATIC S7 receive the signals from the SIWAREX load cells and perform control tasks, such as simple level monitoring of tanks, complex batching or controlling belt scales and loss-in-weight scales. They also offer the familiar advantages of SIMATIC S7 – the systems can be expanded as required and adapted to individual requirements and are therefore totally future-friendly. SIWAREX solutions offer a great deal more than conventional weighing electronics.

With its global presence, Siemens will always be at your side with experienced specialists – in over 160 countries. Our products are capable of calibration to OIML and are certified according to ATEX and FM¹ for use in areas subject to explosion hazards. We will offer you advice from the very beginning with the planning and implementation of your scale – and we will be there for you afterwards. Our 10-year guarantee of spare parts availability means that your investment is secure over the long term.







¹ ATEX and FM certification will be available soon



					
Technical Data	WL230		WL250	WL260	WL270
Type	Shear beam	Bending beam	S-Type	Single Point	Compression
Nominal load (E _{max})	0.5 t – 5 t	10 kg – 500 kg	50 kg – 10 t	3 kg – 500 kg	10 t – 200 t
Accuracy class and maximum scale intervals	C3 to OIML R 60; 3,000 intervals	C3 to OIML R 60; 3,000 intervals	C3 to OIML R 60; 3,000 intervals	C3 to OIML R 60; 3,000 intervals	C3 to OIML R 60; 3,000 intervals 200 t: 0.2 %
Minimum scale intervals	E _{max} / 10,000	E _{max} / 6,000 to E _{max} / 10,000	E _{max} / 7,000 to E _{max} / 12,000	E _{max} / 7,500 to E _{max} / 15,000	E _{max} / 9,000 to E _{max} / 10,000
Supply voltage	5 to 12 V	5 to 12 V	5 to 12 V	5 to 12 V	5 to 12 V
Nominal characteristic	2 mV/V ± 0.002	2 mV/V ± 0.02	3 mV/V ± 0.008	2 mV/V ± 0.2	2 mV/V ± 0.02
Degree of protection	IP66 / IP68	IP66 / IP68	IP67	IP65 / IP67	IP68



Configuration example for level measurement with a hopper scale*:

SIMATIC TP177 Human Machine Interface	
SIMATIC S7-300 or S7-200 controller	
SIWAREX U, CS, MS or FTA weighing modules	
SIWAREX JB junction box	
SIWAREX mounting devices	
SIWAREX load cells	

* These are the main components only. Accessories and software are also required.

Integrate weighing technology into your SIMATIC automation environment

SIWAREX makes it easy to integrate a scale into SIMATIC. Gravimetric level measurement, for example, could be configured as follows: The load cells are connected together using a junction box and linked to a SIWAREX weighing module – SIWAREX U would be ideal for level measurement, but SIWAREX CS, MS or FTA are also possible. The SIWAREX weighing module is integrated into SIMATIC S7 in both hardware and software. It communicates with the controller over the backplane bus or it is integrated as distributed I/O via ET 200 and PROFIBUS. You can expand your scale as required, transfer data to your ERP system problem-free, or make changes as required from your control desk.

Whether you use single components or comprehensive services, you will be supported throughout the entire life cycle with everything from a single source.



The foundations of every scale – SIWAREX load cells

Well-proven technologies supply reliable results. This also applies to the SIWAREX load cells which all function according to the strain gauge principle. The weighing cells comply with accuracy class C3 to OIML as standard. Their high resolution and economical price are only two of the many points in favor of their use in precision applications.

Equipped for anything

The cells are made of aluminum or stainless steel, hermetically sealed, insensitive to dust and water and have a high degree of electro-magnetic compatibility. This means that they can be used in almost any industrial sector – for example, in the food-processing and steel-making industries as well as in the chemical and pharmaceutical industries. You can also obtain variants of Siemens load cells for hazardous environments. With the diverse construction types and comprehensive, graded load classes ranging from 3 kg to 280 t, you are sure to find the right load cell for your application.

Mechanical system safely under control

The load cell must sense only the weight that it is intended to measure. Undesirable torsional or bending torques must be excluded just as effectively as parallel forces or lateral forces because they falsify the measured result and can damage the load cell. If SIWAREX mounting parts are used, these disturbances can be largely avoided and load cells can be installed quickly and easily. The weighing application can then be implemented quickly and will be ready for operation in the shortest possible time.



Benefits at a glance

- Rugged load cells for all types of application
- Accuracy class C3 according to OIML R60
- Compact construction types
- Explosion-proof certification (on request)
- Simple mounting thanks to mounting devices, and the most important data on the load cell
- Support and hotline – round the clock and round the globe

Your Siemens partners worldwide

For local contacts and more information about our SIWAREX weighing systems, please visit:

www.siemens.com/siwarex

For enquiries regarding automation, please visit:

www.siemens.com/automation/service&support

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