

SIEMENS

Ingenuity for life



SIWAREX DB – your connection to the digital world

Greater transparency down to the
individual load cell







usa.siemens.com/weighing

Weight measurement is now digital with SIWAREX DB

Whether it's the specific monitoring of weighing processes or extended diagnostics – in environments that have already been automated, the benefits of digitalization can be exploited to ever better effect. In the field of weight measurement, seamless integration from the field to the control levels ensures that data is recorded and evaluated more comprehensively than previously possible. With SIWAREX DB, this level of connectivity now also covers the individual analog load cell.



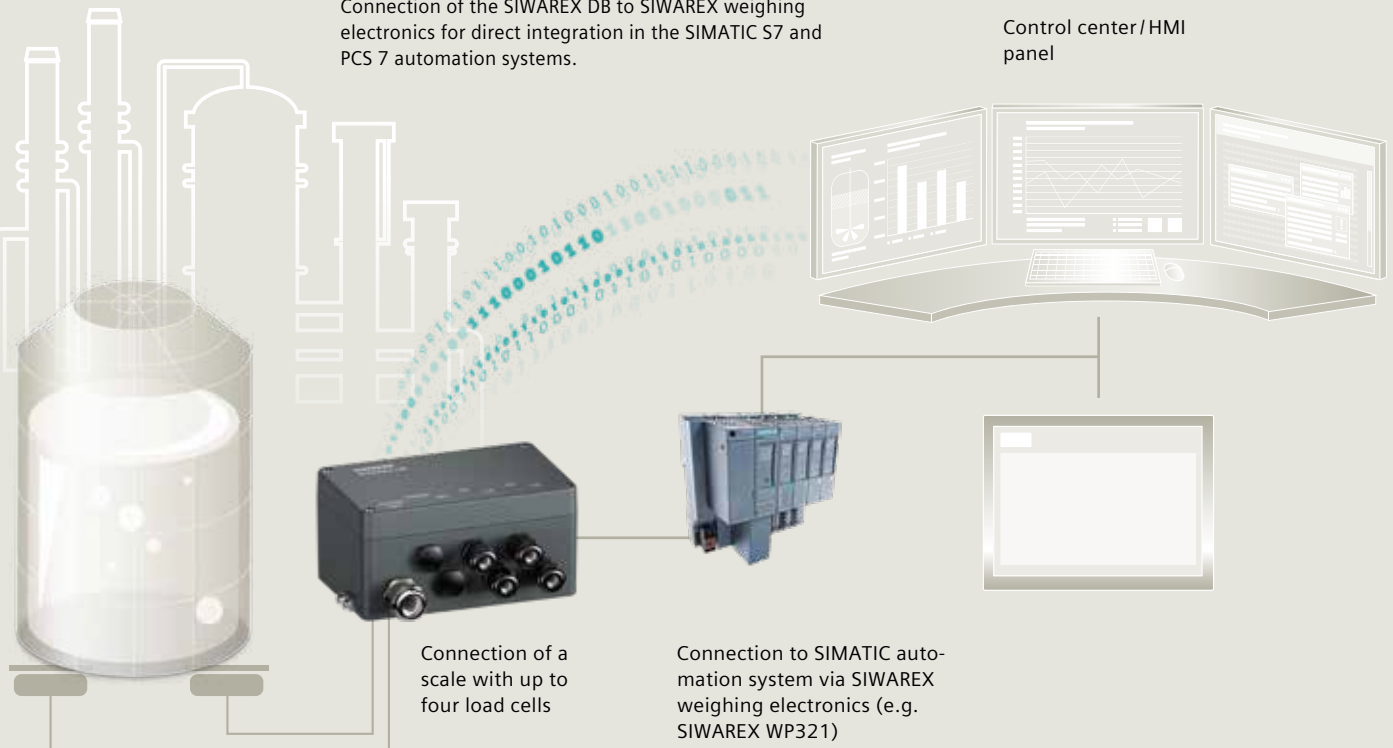
Benefits across the board

 Connection to SIMATIC <ul style="list-style-type: none"> → Standardized communication between the control and field levels → Remote diagnostics for individual load cells 	 Rugged <ul style="list-style-type: none"> → IP66 → Aluminum enclosure → EMC resistant thanks to digital data transfer between SIWAREX DB and SIWAREX WP
 Easy to service <ul style="list-style-type: none"> → Comprehensive monitoring of the weighing process down to the single load cells → Access to specific load cell data like measuring value, impedance, wire break etc. → Supports tracking of order number and location code → LEDs for rapid initial on-site diagnostics → Load cell mV signal available – multimeter not required any more 	 User-friendly <ul style="list-style-type: none"> → Easy replacement of analog junction box → Easy height compensation
 Precise <ul style="list-style-type: none"> → High resolution, like SIWAREX WP 	 Flexible <ul style="list-style-type: none"> → Connection of up to four DMS load cells per scale → Connection to various SIWAREX WP weighing electronics possible

SIWAREX DB – for automation environments

Connection of the SIWAREX DB to SIWAREX weighing electronics for direct integration in the SIMATIC S7 and PCS 7 automation systems.

Control center/HMI panel



For automation environments with weighing technology applications

Full integration in the automation environment

Weighing modules must operate precisely in order to prevent inexact or incorrect measurements, e.g. of level. In order to achieve this, full transparency of the devices' condition is required. SIWAREX DB makes it possible to connect a scale with up to four load cells, providing full flexibility in plant engineering. What makes the device special is its single channel monitoring, allowing wire break, impedance, and the current utilization of each load cell to be detected and corrected in the event of an error.

Available for many applications

Use an application such as silo level monitoring or container weighing? For direct connection to a SIMATIC S7 CPU, the SIWAREX WP231 is ideal for the SIMATIC S7-1200 system. Select a SIWAREX WP321 for the SIMATIC ET 200SP distributed I/O system.

Seamless communication between SIWAREX and SIMATIC ensures less time and effort during commissioning. In addition, SIWAREX DB can substitute for the identical SIWAREX JB terminal box in existing installations. This enables relatively easy digital upgrades to existing plants.

Diagnostics: faster service

SIWAREX DB supplies diagnostics data that are fully integrated in the SIMATIC environment. Error messages are displayed centrally on the SIMATIC controller and the HMI. The seamless connection between the control unit and SIWAREX modules guarantees instantaneous diagnostics. That both simplifies and speeds up service, while minimizing downtimes.

Product data at a glance

	SIWAREX DB
Applications	Suitable in particular for level measurement, platform weighing, dosing
IP degree of protection	IP66, DIN 60529
Ambient temperature	–20 to +80°C
Enclosure material	Diecast aluminum, DIN EN 1706 EN AC-AISI 12 (Fe)
Dimensions	100 x 160 x 81 mm
Resolution	Dependent on SIWAREX weighing electronics used
Minimum input resistance	330 Ω
Item number	7MH5001-0AD20





Looking for a way to monitor each and every load cell in your application? At the same time, want to reduce potential downtimes with remote diagnostics for the individual channels? Then you've found the right solution. With SIWAREX DB, we offer a digital junction box that is easy to integrate in your existing automation solution – even in demanding industrial environments, thanks to its rugged field enclosure with IP66 protection. It is connected to the automation environment simply using SIWAREX weighing electronics.

Measuring everything that matters:

www.usa.siemens.com/pi

Siemens Process Instrumentation offers best-in-class measurement and seamless integration into your automation system. We are the total solution provider for flow, level, pressure, temperature, weighing, positioners and more.

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