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**
- Standardized communication between the control and field levels
- Remote diagnostics for individual load cells

**Rugged**
- IP66
- Aluminum enclosure
- EMC resistant thanks to digital data transfer between SIWAREX DB and SIWAREX WP

**Easy to service**
- 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**
- Easy replacement of analog junction box
- Easy height compensation

**Precise**
- High resolution, like SIWAREX WP

**Flexible**
- 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

Connection of a scale with up to four load cells

Connection to SIMATIC automation system via SIWAREX weighing electronics (e.g. SIWAREX WP321)
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

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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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