

# SIEMENS



PROCESS INSTRUMENTATION

# SIWAREX DB – your connection to the digital world

Greater transparency down to the individual load cell

[usa.siemens.com/weighing](https://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.

# 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.



## SIWAREX DB

Application	Suitable in particular for level measurement, platform weighing, dosing
IP degree of protection	IP66, DIN 60529
Ambient temperature	-20 to +80°C
Enclosure material	100 x 160 x 81 mm
Dimensions	Dependent on SIWAREX weighing electronics used
Resolution	330 Ω
Item number	7MH5001-0AD20

# Benefits across the board



## Connectivity

- Direct integration into SIMATIC S7 and SIMATIC PCS 7 environment
- Connection to multiple control platforms with Ethernet IP, Profinet, or Modbus TCP via WP321 / ET200 SP Multibus.
- Cloud based remote monitoring with apps via Store IQ



## 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.
- 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 (4 million parts) when connected to SIWAREX WP weighing modules
- Measurement rates up to 120 Hz for accuracy in high speed applications



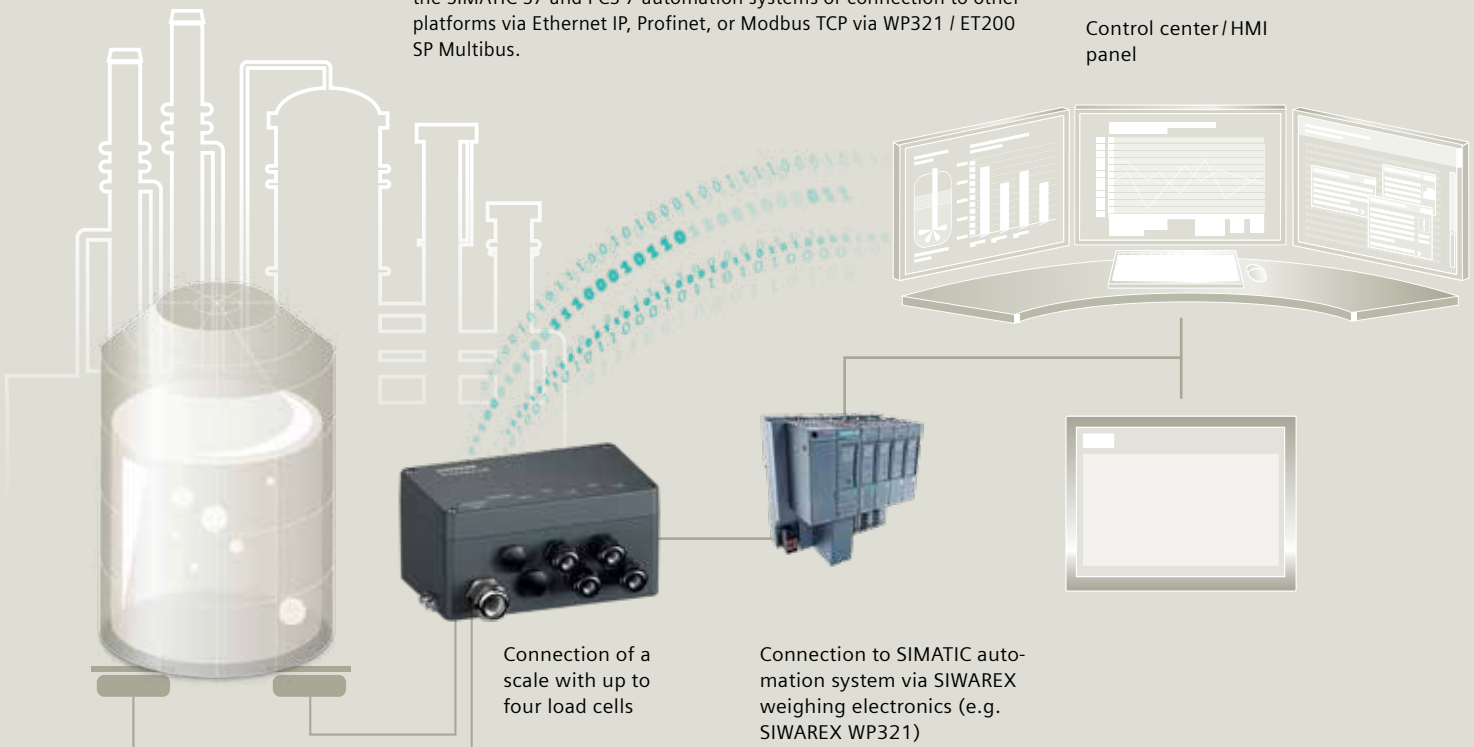
## Flexible

- Connection of up to four DMS load cells per scale
- Connection to various SIWAREX WP weighing electronics possible

### SIWAREX DB – for automation environments

Direct integration of the SIWAREX DB to SIWAREX weighing electronics in the SIMATIC S7 and PCS 7 automation systems or connection to other platforms via Ethernet IP, Profinet, or Modbus TCP via WP321 / ET200 SP Multibus.

Control center / HMI panel



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