PROCESS INSTRUMENTATION

Flexibility **for the future**

Versatile weighing module for the new generation of SIMATIC

www.usa.siemens.com/weighing

SIWAREX WP231: The first weighing module for weighing applications in SIMATIC S7-1200

Its flexibility is unmatched:
- Programmable in Totally Integrated Automation
- Stand-alone ability
- Parallel integration possible
- Expanded communication options
- Individual user interface design
- NTEP approved for custody transfer

SIEMENS

Remarkably versatile module with flexible integration

SIWAREX WP231: the first weighing module for SIMATIC S7-1200 and easily SIWAREX's most flexible module ever.

From level monitoring in silos and bunkers to weighing material in hoppers or on platform scales, SIWAREX WP231 excels even in hazardous areas. This module is ideal for industries where precision is crucial, such as food and beverage, pharmaceutical, chemical, and others.

The Siemens weighing module SIWAREX WP231 offers full integration into SIMATIC S7-1200 and through this is programmable via the Totally Integrated Automation (TIA) Portal engineering platform. Using the TIA Portal gives you intuitive and faster engineering, resulting in increased productivity, improved safety, and reduced production costs.

To support your applications embedded in non-SIMATIC environments, SIWAREX WP231 comes with Ethernet and RS485 interfaces with the Modbus protocol. You can use each Modbus-compatible HMI panel as a direct control device with customized user interface. The ability to operate SIWAREX WP231 with or without SIMATIC PLCs offers you the flexibility and reliability you need.

Process efficiency and security is important to you, and is a key feature of the SIWAREX WP231, whether the module is integrated into SIMATIC S7-1200 or operating as a stand-alone device. You can therefore define customized limit values and connect various parameters to the onboard outputs. This provides a versatile and powerful option for alarm management and process automation.

Operation is simple either through SIMATIC or via a directly connected HMI panel. Using the automatic calibration feature, the measuring system is ready to use in only a few minutes. SIWAREX WP231's excellent measuring abilities include a high resolution of up to +/- four million parts and a high measuring time of 10 milliseconds.

Combined, these features guarantee reliable weighing in all of your applications.

- **Application flexibility** – SIMATIC S7-1200 and Totally Integrated Automation integration or stand-alone operation without SIMATIC CPU
- **Convenient connection possibilities** – Four digital inputs and outputs, one analog output (0/4...20 mA). Ethernet (Modbus TCP/IP) and RS485 (Modbus RTU) interfaces available
- **Excellent measuring abilities** – Accuracy of 0.05%, high resolution of up to +/- four million parts, and a high measuring time of 10 milliseconds
- **Reliability throughout the production process** – Extensive diagnostic functions for commissioning and operation, monitoring of limit values, and use in Ex-applications zone 2
- **Fast and easy commissioning** – Operation via HMI touch panel or SIMATIC, plus automatic adjustment without the need for calibration weights
- **SIMATIC benefits** – User interface customization plus easy replacement and extension of the modules
- **Legal for Trade** – NTEP and OIML certificates for custody transfer

Standard specifications	SIWAREX WP231
Possible applications	• Level monitoring of silos and bunkers • Weighing in hoppers, platform scales • Suitable for hazardous applications
Resolution	up to +/- 4 million parts
Accuracy	0.05%
Trade Approvals	NTEP Class III / IIIL, OIML R76
Measuring time/rate	10 ms/100 Hz
Use in automation system	• SIMATIC S7-1200 • Other systems via Modbus RTU or Modbus TCP/IP
Communication interfaces	• SIMATIC Bus • RS485 • Ethernet
Inputs/outputs	• 4 digital inputs • 4 digital outputs • 1 analog output (0/4...20 mA)
Rated voltage	DC 24 V
Mounting	DIN rail
Dimensions	70 x 75 x 100 mm
Weight	280 g
Article No.	7MH4960-2AA01

Measuring everything that matters:

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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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