

OFFICIAL MANUFACTURER DOCUMENT PACKAGE

Installation Instructions

7MH4950-2AA01

Siemens official documentation for the exact article number.

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Safety instructions

This manual contains instructions which you must observe for your own safety and to avoid material damage. The instructions are signaled by a warning triangle and are presented as follows according to the degree of danger:



Danger

Means that failure to take the necessary safety precautions **will** result in death, serious injury or significant material damage.



Warning

Means that failure to take the necessary safety precautions **can** result in death, serious injury or significant material damage.



Caution

Means that failure to take the necessary safety precautions can result in a minor injury or material damage.

Caution

Means that failure to take the necessary safety precautions can result in material damage.

Attention

Refers to important information about the product, the handling of the product or the respective part of the documentation to which special attention should be given.

Qualified personnel

The commissioning and operation of a device may only be performed by **qualified personnel**. In the context of the safety instructions in this manual, qualified personnel means persons who have the authorization to commission, ground, and certify devices, systems, and power circuits in accordance with the applicable safety standards.

Proper use



Warning

The device may only be used for the applications described in the catalog and the technical description and only in conjunction with external devices and modules that are approved or recommended by Siemens.

Fault-free and safe operation of the product depends on proper transport, storage, assembly, and installation as well as careful operation and maintenance.

Brand names/Trademarks

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Disclaimer

We have tested the contents of this document for compatibility with the hardware and software described. This does not exclude the possibility of discrepancies, in which case we do not guarantee the complete compatibility of this document. The information in this document is assessed regularly and any necessary corrections are included in the next revision.

We are grateful for any suggestions for improvement.

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SIWAREX U

Universal weighing module for SIMATIC S7 300 and ET 200M

Technical manual for modules with order
number 7MH4950-1AA01 and 7MH4950-2AA01

Version 01/2012

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The structure of the manual is oriented towards activities which have to be performed as part of configuration, commissioning and servicing.

Chapter	Description of contents
1 Preface	Notes on using this manual
2 Scope of delivery	Description of the scope of delivery of SIWAREX U.
3 Preface	Overview of the - Design - Functionality - System integration of SIWAREX U.
4 Hardware configuration and installation	Description of: - The individual hardware modules - Assembly and installation - The pin assignment - The preparation for operation.
5 Weighing functions	Description of all scale parameters and associated functions.
6 Commands	Description of the commands SIWAREX U can execute.
7 Messages and diagnostics	Description of the messages with notes on troubleshooting.
8 Communication in SIMATIC S7	Description of the data exchange with the SIMATIC CPU. This chapter is meant for those who write application software.
9 Communication with other systems	Description of the communication with other automation systems
10 Remote display	Connection to remote display Siebert S102
11 Setting the scale – SIWATOOL U	Description of: - The software installation - The software functions.
12 Order numbers and accessories	Ordering instructions for optional components such as: - Digital remote displays - Ex interface.
13 Technical data	Technical data
14 Index	Index
15 Abbreviations	List of abbreviations

Table 1-2 Chapter overview

1.4 Further support

Do you have more questions regarding the use of SIWAREX U? Then please contact your Siemens representative in the office or business location that is responsible for your area or technical support for SIWAREX Tel.: +49 (0)721 595 2811.

Up-to-date information on the subject of SIWAREX weighing technology can be found on the Internet site.

<http://www.siemens.com/siwarex>

- o The measurement of crane and rope loads, other strength measurements
- o Load measurement for industrial elevators or rolling mills
- o Weighing in areas with a risk of explosion (with SIWAREX IS Ex interface)
- o Belt tensioning measurement

3.3 Design

SIWAREX U is a function module (FM) for direct use in SIMATIC S7 300 or for peripheral operation via ET 200M. In this way, SIWAREX U can also work together with SIMATIC S7 400 and other automation systems. The installation and wiring outlay for the module is very small. The connection of the load cells, of the power supply, and of the serial ports is performed via the 20-pin front connector. With the operation of SIWAREX U in SIMATIC, there is a complete integration of weighing technology in the automation system.

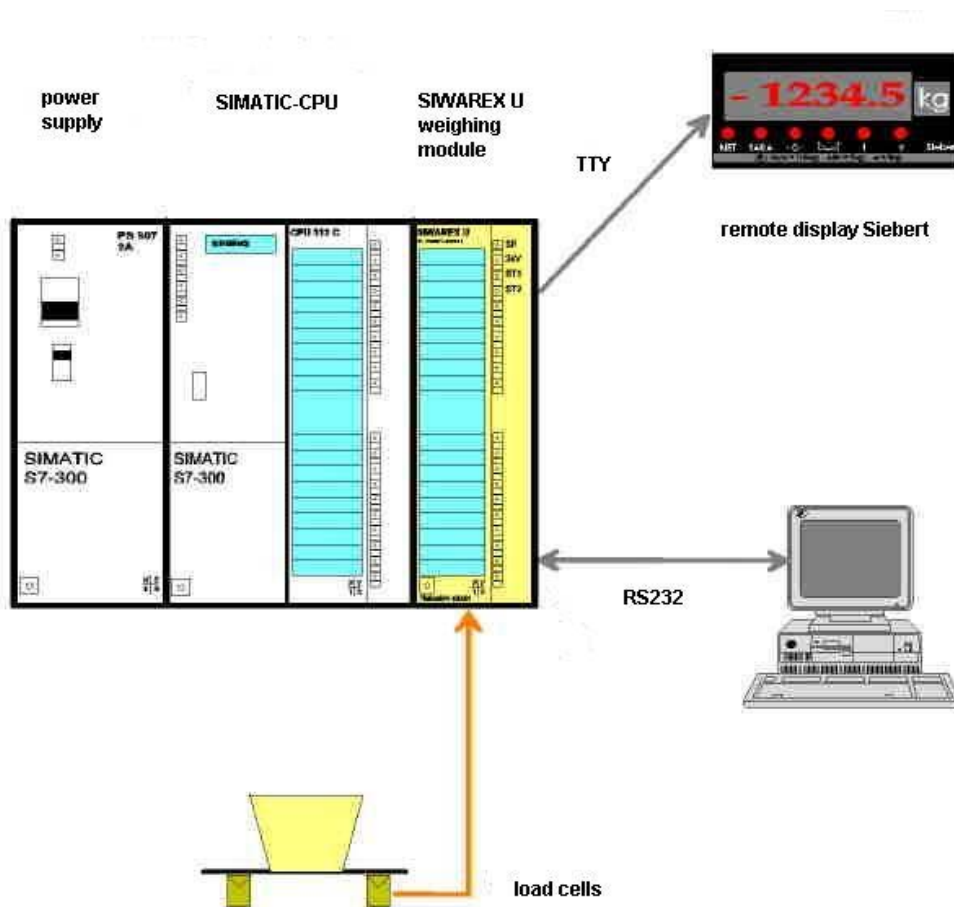


Figure 3-1 System overview with SIWAREX U