

SIEMENS

Preface

RESERVE module
(6ES7138-4AAx1-0AA0)

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SIMATIC

ET 200S distributed I/O
RESERVE module
(6ES7138-4AAx1-0AA0)

Manual

Safety Guidelines

This manual contains notices you have to observe in order to ensure your personal safety, as well as to prevent damage to property. The notices referring to your personal safety are highlighted in the manual by a safety alert symbol, notices referring only to property damage have no safety alert symbol. These notices shown below are graded according to the degree of danger.

⚠ DANGER
indicates that death or severe personal injury will result if proper precautions are not taken.
⚠ WARNING
indicates that death or severe personal injury may result if proper precautions are not taken.
⚠ CAUTION
with a safety alert symbol, indicates that minor personal injury can result if proper precautions are not taken.
CAUTION
without a safety alert symbol, indicates that property damage can result if proper precautions are not taken.
NOTICE
indicates that an unintended result or situation can occur if the corresponding information is not taken into account.

If more than one degree of danger is present, the warning notice representing the highest degree of danger will be used. A notice warning of injury to persons with a safety alert symbol may also include a warning relating to property damage.

Qualified Personnel

The device/system may only be set up and used in conjunction with this documentation. Commissioning and operation of a device/system may only be performed by **qualified personnel**. Within the context of the safety notes in this documentation qualified persons are defined as persons who are authorized to commission, ground and label devices, systems and circuits in accordance with established safety practices and standards.

Prescribed Usage

Note the following:

⚠ WARNING
This device may only be used for the applications described in the catalog or the technical description and only in connection with devices or components from other manufacturers which have been approved or recommended by Siemens. Correct, reliable operation of the product requires proper transport, storage, positioning and assembly as well as careful operation and maintenance.

Trademarks

All names identified by ® are registered trademarks of the Siemens AG. The remaining trademarks in this publication may be trademarks whose use by third parties for their own purposes could violate the rights of the owner.

Disclaimer of Liability

We have reviewed the contents of this publication to ensure consistency with the hardware and software described. Since variance cannot be precluded entirely, we cannot guarantee full consistency. However, the information in this publication is reviewed regularly and any necessary corrections are included in subsequent editions.

Preface

Purpose of the manual

This manual supplements the *ET 200S Distributed I/O System* Operating Instructions. General functions for the ET 200S are described in the *ET 200S Distributed I/O System* Operating Instructions.

The information in this document along with the operating instructions enables you to commission the ET 200S.

Basic knowledge requirements

To understand these operating instructions you should have general knowledge of automation engineering.

Scope of the manual

This manual applies to this ET 200S module. It describes the components that are valid at the time of publication.

Recycling and disposal

Thanks to the fact that it is low in contaminants, this ET 200S module is recyclable. For environmentally compliant recycling and disposal of your electronic waste, please contact a company certified for the disposal of electronic waste.

Additional support

If you have any questions relating to the products described in these operating instructions, and do not find the answers in this document, please contact your local Siemens representative.

<http://www.siemens.com/automation/partner>

The portal to our technical documentation for the various SIMATIC products and systems is available at:

<http://www.siemens.com/automation/simatic/portal>

The online catalog and ordering system are available at:

<http://www.siemens.com/automation/mall>

Training center

We offer courses to help you get started with the ET 200S and the SIMATIC S7 automation system. Please contact your regional training center or the central training center in D - 90327, Nuremberg, Germany.

Phone: +49 (911) 895-3200.

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

Technical Support

You can reach technical support for all A&D projects

- using the support request web form:
<http://www.siemens.com/automation/support-request>
- Phone: + 49 180 5050 222
- Fax: + 49 180 5050 223

For more information about our technical support, refer to our Web site at

<http://www.siemens.de/automation/service>

Service & Support on the Internet

In addition to our documentation services, you can also make use of our comprehensive online knowledge base on the Internet.

<http://www.siemens.com/automation/service&support>

There you will find:

- Our Newsletter, which constantly provides you with the latest information about your products.
- The right documentation for you using our Service & Support search engine.
- The bulletin board, a worldwide knowledge exchange for users and experts.
- Your local contact for Automation & Drives in our contact database.
- Information about on-site services, repairs, spare parts. Lots more can be found on our "Services" pages.

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RESERVE module (6ES7138-4AAx1-0AA0)

1.1 RESERVE module (6ES7138-4AAx1-0AA0)

Properties

The RESERVE module has the following properties:

- Suitable for all TM-E terminal modules (installation widths 15 mm and 30 mm).
- Reserves a slot on any electronic module.
Insert the RESERVE module in the reserved slot of the ET 200S configuration.

Note

Pay attention to the following with the IM151-1 STANDARD (6ES7151-1AA01-0AB0, 6ES7151-1AA02-0AB0), IM151-1 FO STANDARD (6ES7151-1AB00-0AB0, 6ES7151-1AB01-0AB0) and IM151/CPU (6ES7151-7AA00-0AB0):

- If you remove an electronic module during operation of the ET 200S and replace it with a RESERVE module, you must then cycle the supply voltage (power OFF/power ON) on the interface module.

Pay attention to the following with the IM151-1 STANDARD (6ES7151-1AA00-0AB0):

- The RESERVE module cannot be used in the ET 200S.
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Parameter assignment (without option handling)

- In *STEP 7* or *COM PROFIBUS*, assign parameters to the electronic module you want to use for future applications, such as 4DI 24 VDC High Feature, on the slot of the RESERVE module.
 - Drag the module to the configuration table
 - Assign the parameters
- Parameterize the interface module as follows:

Parameters	Setting
Operation at preset <> Actual configuration	Enable

- If you have assigned parameters to an electronic module with inputs for the RESERVE module, the following substitute values are reported:
 - Digital input modules: 0
 - Analog input modules: 7FFF_H
 - Function module: 0

Note

If you use RESERVE modules:

- The SF LED lights up on the interface module
 - A channel-specific diagnostic and module status "10_B: Wrong module" are reported for the RESERVE module slot.
-

Parameter assignment (with option handling)

For information on option handling with RESERVE modules, refer to the manuals for the ET 200S interface modules that support option handling.

Terminal assignment

The RESERVE module has no connection to the terminals of the TM-E terminal module. This enables you to fully wire the TM-E terminal module and prepare it for the subsequent application.

RESERVE Module technical data (6ES7138-4AAx1-0AA0)

Dimensions and weight	
Dimension W x H x D (mm)	15 x 81 x 52 (6ES7138-4AA01-0AA0) 30 x 81 x 52 (6ES7138-4AA11-0AA0)
Weight	Approx. 33 g (installation width 15 mm) Approx. 55 g (installation width 30 mm)
Voltages, currents, potentials	
Power dissipation of the module	Typically 0.025 W
Status, interrupts, diagnostics	
Status display	No
Diagnostics function	No

Note

The address space must correspond with the address space of the planned electronic module.

Reference

For information on using RESERVE modules and option handling, refer to the *ET 200S Operating Instructions in Functions > Option Handling on PROFIBUS DP*.

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