

7SJ61...7SJ65, 6MD63

Communication module versions, Mapping file versions

Modbus

1 Overview

<i>When using</i>	<i>You require</i>			<i>Remarks</i>
	<i>Communication module firmware</i>	<i>DIGSI</i>	<i>7SJ6x, 6MD63 Device firmware</i>	
Standard mappings 1...n	Modbus V1 or Modbus V2	from V4.10	from V4.20	For devices: 7SJ61...7SJ63, 7SJ65, 6MD63, no routing capability in DIGSI!
Standard mapping 3-1	from ModbusV2.00	from V4.21 SP3	from V4.40	For devices: 7SJ61...7SJ63, 7SJ64, 6MD63
Standard mapping 3-2 (with Sequence of Events)	from Modbus V3.00	from V4.21 SP3	from V4.40	For devices: 7SJ61...7SJ63, 7SJ64, 6MD63

2 Version information for Modbus Slave communication module firmware

V02.00.05 November 2001

New functions (together with standard mapping from 3-1):

- Time synchronization of the SIPROTEC devices via Modbus,
- Transmission of Min/Max values incl. time stamp of the Min/Max value event,
- Double commands can be controlled with "Force Single Coil" or "Force Multiple Coils" alternatively.

V03.00.04 January 2002

New functions (together with standard mapping 3-2):

- Sequence of Events recorder for transmission of annunciations with time stamp,
- Additional baud rate support: 38400 and 57600 Bit/s.

V03.01.01

June 2003

New function:

- Transformer tap change commands and Transformer tap position indications via Modbus
 - Only available together with Modbus mapping files for 7UT613, 7UT63 devices at the moment.
 - Modbus firmware V03.01.01 is identical to V03.00.04 for all other SIPROTEC devices.



Attention!

New hardware revision of the asynchronous communication modules for SIPROTEC devices.

The version V04 of the Modbus slave communication module firmware has to be used only together with the asynchronous modules from hardware revision 4.

The Modbus slave communication module firmware V03 has to be used for asynchronous communication modules up to hardware revision 3 furthermore.

You find further information about the hardware revisions of the asynchronous communication modules and the version dependencies in the "Service-Information for DIGSI4 Update and SIPROTEC4 Firmware Update".

http://siemens.siprotec.de/download_neu/devices/1_Allgemein/FW_UPDATEINFORMATION/Readme_up.pdf

V04.00.05

October 2004

New functions:

- Display of communication module information at the device display (only with 7SJ6x, 6MD63 device firmware from V4.50),
- Diagnostic subfunctions 10, 12, 13 and 14 are supported,
- Serial transmission with two stop bits and parity = NONE is selectable.

3 Notes

- Standard mappings**
- The Modbus Slave communication module firmware V2 is backward compatible for the standard mappings 1...n.
 - The Modbus Slave communication module firmware V3 is backward compatible for the standard mappings 1...n and 3-1...3-n.
 - The new functions of the Modbus Slave communication module firmware V2 are only available when utilizing the standard mappings 3-1...3-n.
 - The new functions of the Modbus Slave communication module firmware V3 are only available when utilizing the standard mapping 3-2.
 - Standard mappings 3-1...3-n are not available for the device 7SJ65 (current device firmware 4.30).
 - When creating a 7SJ61...64, 6MD63 device V4.40, only the standard mappings 3-1...3-n are by default selectable in DIGSI.
The scope of function provided by the standard mappings 1...n can also be utilized with the mappings above.
 - Because standard mappings 1...n do not support the routing capabilities in DIGSI, these mappings should not be used to configure the devices with firmware version from V4.40.
If you still want to configure devices with firmware 4.40 using a standard mapping 1...n, then please contact your Siemens representative.

4 References

General Document "How to order communication modules for SIPROTEC4 devices"

Standard mapping specific

<i>Title of manual</i>	<i>Standard mappings 1...n</i>	<i>Standard mappings 3-1...3-n</i>
SIPROTEC Communication module - Modbus Communication profile	C53000-L1840-B001-01	C53000-L1840-B001-03
SIPROTEC Communication module- Modbus Bus mapping 7SJ6x, 6MD63	included in C53000-L1840-B001-01	C53000-L1840-B006-03

The general documents and manuals for each specific device may be found for downloading under

<http://www.siprotec.com>

→ Devices → General information → Communication → Communication protocol descriptions