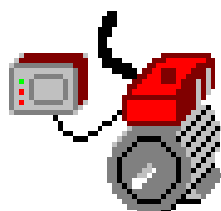


GSD file information for

PROFIBUS module

MFP / MQP for MOVIMOT



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1 Revision status GSD file

The syntax of this GSD file was checked with

- GSD-Editor V2.1
- GSD-Checker V2.2 of the Profibus Usergroup
- HW Config of STEP 7 V5.1 + SP2 (Siemens AG)
- Hilscher System Configurator SyCon V 2.638.

For the PROFIBUS module MFP for MOVIMOT use the following files:

SEW_6001.GSD	- GSD file
SEW6001N.BMP	- Bitmap file with inverter icon
SEW6001S.BMP	- Bitmap file with inverter icon
SEW6001N.DIB	- Device independent Bitmap file with inverter icon
SEW6001S.DIB	- Device independent Bitmap file with inverter icon

Note:

The latest version of the GSD files for SEW inverters can be downloaded from the SEW homepage, URL <http://www.SEW-EURODRIVE.de>.

Version 1.50 of 1st February 2002

Changes V1.40 to V1.50:

- Support of new module types MFP 4x and MQP
- The description of the keyword *Model_Name* is changed to "MFP/MQP + MOVIMOT"
- Leading slot added. Slot 0 contains always an empty slot or the parameter channel. This modification is full compatible to all MFP and MQP modules.
- Additionally predefined configurations for MQP modules
- Step7 specific keyword *OrderNumber* shows the GSD-Version number in the Hardware catalog or *HW Config*.
- Maximum data length of inputs and outputs expanded to 28/56 bytes.

Version 1.40 of 21. August 2000

From September 2000 on the Profibus modules MFP and MFZ are delivered as version D. These modules are compatible to version A, but also support the higher baudrates 3, 6 and 12 MBaud. For the configuration in the project planning software of the DP Master you have to use the GSD file version 1.40 or higher. This file version supports the older modules (version A) too. Please note that the highest supported baudrate of version A is 1.5MBaud!

Changes V1.31 to V1.40:

- Support of higher baudrates 3, 6 and 12 Mbaud
- The description of the keyword *Model_Name* is changed to "MOVIMOT + MFP..D"

Version 1.31 of 24. March 2000Changes V1.20 to V1.31:

- The factory setting in the GSD file for external diagnosis alarms is changed to DISABLED:
→ Inverter fault doesn't generate external diagnosis alarm, normal DP diagnosis is still active! The external diagnosis can be enabled in the project planning software of the DP master.
- Additionally predefined configuration of 6 and 10 process data
- MOVIDRIMOT + MFP is assigned to slave family „Drives“ now and no longer assigned to the group „General“ (as in GSD version 1.20).
- The GSD file uses additional bitmap files to specify the symbolic representation of the drives in the project planning software of the DP master.

Version 1.20 of 31. March 19981st release

2 How to install the GSD file

The GSD file is supplied for project planning for the DP master. The GSD file must be copied into a special folder for your project planning software. Please refer to the manuals of your project planning software for information about the precise procedures.

The standardized GSD file can be read from all DP master systems.

2.1 How to install a new GSD file with STEP 7

1. Start the Simatic Manager program.
2. Open an existing project and start the hardware configuration tool (HW-Config).
3. Please close the Configuration window in between the HW-Config, otherwise you cannot install the new version of the GSD file.
4. Use the menu "Options / Install new GSE..." to select the new GSD file
"SEW_6001.GSD".

Click OK to open the new GSD file. The Message box asks, if you really want to exchange the current GSD file with the revision 1. Choose YES to overwrite the old file. Now the new GSD and bitmap files will be loaded into the STEP7 system. The contents of the hardware catalog will be automatically updated.

IMPORTANT: The current GSD file bases on GSD revision 1. This number is not the version number of the GSD file. Open the sew_6001.gsd file (e.g. with notepad.exe) to check the version number of the GSD file.

1. You'll find the SEW inverter in the hardware catalog in the section:
 PROFIBUS DP
 +--Additional Field Devices
 +--Drives
 +--MFP/MQP + MOVIMOT

→ The new GSD file is successfully installed now.

3 Project planning for the DP master

The following section describes the scenario for the project planning for the DP master:

- 1) Install (copy) the GSD file in accordance with the requirements of your project planning software. Once the installation has been completed correctly, the inverter appears in the slave family „**Drives**“ with the designation „**MFP/MQP + MOVIMOT**“.
 - 2) For project planning purposes, add the interface module „**MFP/MQP + MOVIMOT**“ into the PROFIBUS structure and assign the station address.
 - 3) Select the process data configuration for your application
 - 4) Specify the I/O addresses for the configured process data configuration.
 - 5) If diagnosis alarm processing should be activated for the inverter, select „External diagnosis = Enabled (on)“ of the slave parameter setting (chapter 4 External Diagnosis).
- Startup PROFIBUS DP following the project planning steps. The red „BUS FAULT“ LED signals the status of the project planning process (OFF = project planning OK).

4 External Diagnosis

For MOVIMOT + MFP, it is possible to activate automatic generation of external diagnosis alarms via PROFIBUS-DP during the project planning in the DP master. If this function has been activated, the MFP sends an external diagnosis signal to the DP master every time a malfunction occurs. It is then necessary to program corresponding algorithms in the program of the DP master system in order to evaluate the diagnosis information. These algorithms can sometimes be quite complex.

4.1 Recommendation

It is basically not necessary to activate the external diagnosis function because the module transmits the current drive status in status word 1 during every PROFIBUS-DP cycle.

4.2 Note regarding Simatic S7 DP-Masters

Diagnostic alarms may be triggered by the PROFIBUS-DP system in the DP master at any time even when external diagnosis signal generation is inactive. This means the corresponding operation blocks (e.g. OB84 for S7-400 or OB82 for S7-300) should always be created in the controller.

4.3 Activation of External Diagnosis

Additional application-specific parameters can be defined in every DP master during the configuration of a DP slave. These parameters are transferred to the slave when the PROFIBUS-DP starts up. Ten application-specific parameter data items are provided for MOVIMOT+MFP. Their functions are as follows:

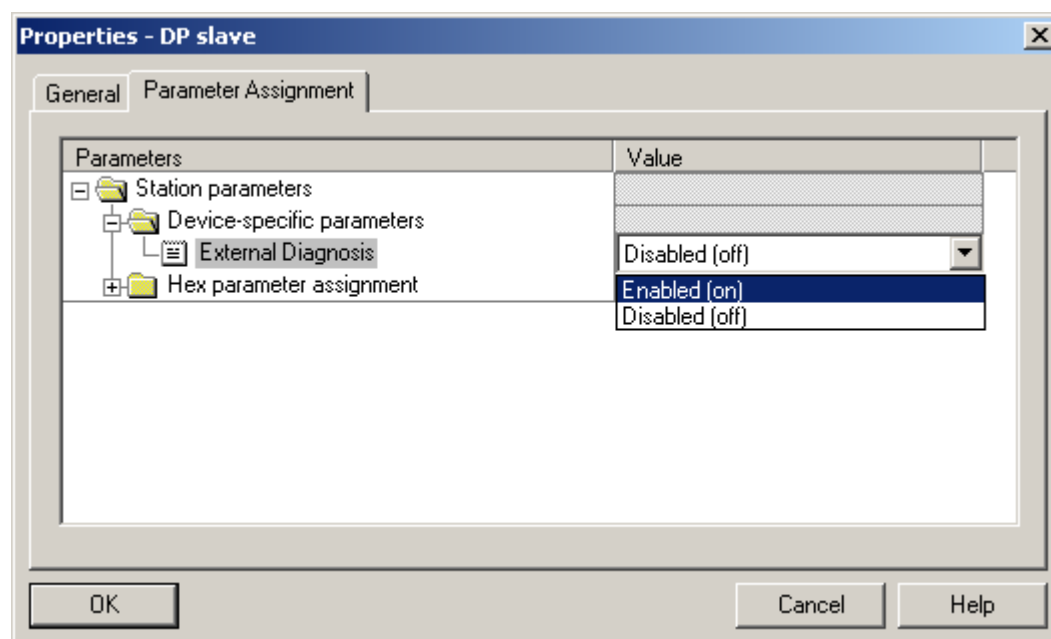
Byte :	Permitted value	Function
0	00 hex	reserved
1	00 hex 01 hex	MFP generates external diagnosis alarm due to malfunction MFP <u>does not</u> generate external diagnosis alarm due to malfunction (factory setting in GSD file)
2-9	00 hex	reserved

Tabelle 1: User-specific parameter data

No unlisted values are permitted. They can lead to malfunctions!

4.4 Activating the external diagnosis in STEP 7

The project planning programs of the DP master systems either offer the option of activating the external diagnosis in plain text format, such as with STEP7, or of stating the information directly in hex code.


Bild 4-1: Activating external diagnosis with STEP7

Parameter data (hex)	Function
00,00,00,00,00,00,00,00,00,00,00	External diagnosis alarms are also generated if there is an inverter malfunction (enabled = on)
00,01,00,00,00,00,00,00,00,00,00	External diagnosis alarms are not generated if there is an inverter malfunction (disabled = off, factory setting in GSD file)

Tabelle 4-2: Hex code for activating external diagnosis generation