PROFIBUS communication modules

Hardware revisions

There exist two different hardware revisions for PROFIBUS communication modules:

- up to HW revision 3: delivery up to the beginning of year 2004

- from HW revision 4: replacement for modules up to HW revision 3, delivery from beginning of 2004

The communication modules up to HW revision 3 are function compatible to the modules from HW revision 4.

Please note the dependency of the PROFIBUS firmware versions with the HW revisions (see Table 2).
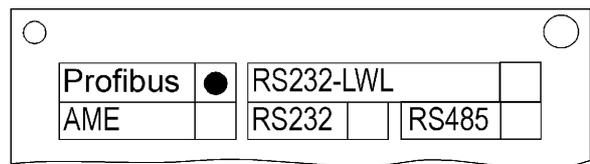
The hardware revision of the PROFIBUS communication modules is also recognizable in build-in condition at the rear of the SIPROTEC device at the labelling of the communication module mounting bracket:

- up to HW revision 3: identification "P-Slave"

- from HW revision 4: identification "Profibus"

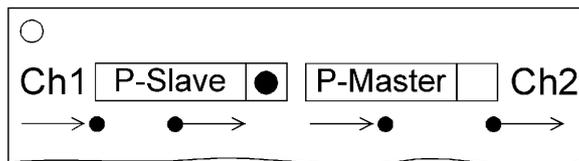### Profibus RS485 (PSE module)
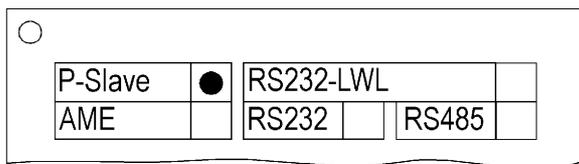
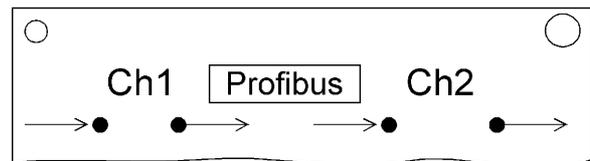up to HW revision 3   from HW revision 4
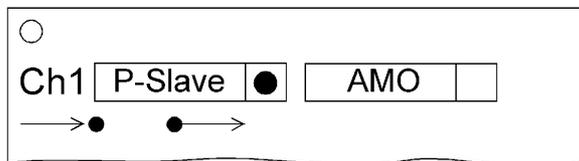
Profibus fibre-optical, double loop (PSO2 module)

up to HW revision 3   from HW revision 4

Profibus fibre-optical, single loop (PSO1 module)
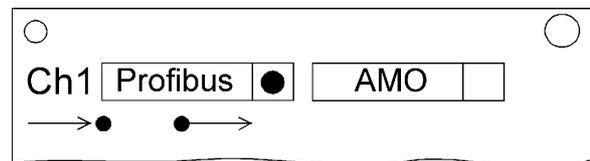
up to HW revision 3   from HW revision 4

				Datum		Service-Information SIPROTEC 4 PROFIBUS Kommunikationsmodule	
				Bearb.	Förster		
				Gepr.	Schuster		
				Norm.			
				SIEMENS AG PTD PA Power Transmission and Distribution			Blatt 3 / 4
Zust	Mitteilung	Datum	Name				

Compatibility of communication module hardware with firmware versions

Please note the following listed compatibility between the hardware revisions of the PROFIBUS communication modules and the PROFIBUS firmware versions:

Hardware revision	Firmware versions to be used
up to HW revision 3	▪ up to PROFIBUS-FMS V01 ▪ up to PROFIBUS-DP V03
from HW revision 4	▪ from PROFIBUS-FMS V02 ▪ from PROFIBUS-DP V04

Table 2: Communication modules – Compatibility

Note

If, during loading of the PROFIBUS firmware on the communication module, a non-compatible hardware revision is recognized, then the firmware update is cancelled.
Please, in case of an abort of loading the PROFIBUS communication firmware, check first the dependencies indicated in Table 2.

After attempting to load a PROFIBUS firmware version on a non-compatible hardware revision the device remains in the loader mode (display = empty, LED5 = ON, LED6 = flashing) and loading of a correct firmware version or an initial reset of the device is expected.
If no firmware shall be loaded in this situation, then the device has to be switched off and (after at least 3 sec) switched on again. The previous firmware configuration is then used furthermore.

Please check upon completion of the firmware update the correct result again with the version numbers at the device display (ref. to chap. 3.3.3 "Reading out the Type Designation" in the manual "SIPROTEC4 System Description", E50417-H1176-C151-A4).

Compatibility of communication module hardware with mapping files

PROFIBUS-DP requires so-called mapping files for parametrization. These mapping files are selected in DIGSI and fix the data size as well as make bus specific settings possible.

There is no compatibility reduction between PROFIBUS-DP mapping files of the SIPROTEC4 devices and the hardware revision of the communication modules, i.e.:

▪ the known PROFIBUS-DP mapping files for SIPROTEC4 devices, offered in DIGSI and used so far, are used for parametrization furthermore,

▪ existing parametrizations can be used further, even if a communication modul up to HW revision 3 is replaced by a communication module from HW revision 4 (considering the firmware compatibility in Table 2).

Related Documents

Manual
SIPROTEC4 Communication module – PROFIBUS-DP Communication profile
C53000-L1840-B001-03
www.siprotec.com

				Datum		Service-Information	
				Bearb.	Förster	**Service-Information**	
				Gepr.	Schuster	**SIPROTEC 4**	
				Norm.		**PROFIBUS Kommunikationsmodule**	
				SIEMENS AG			Blatt
				P T D P A			
				Power Transmission			4 / 4
Zust	Mitteilung	Datum	Name	and Distribution			