CPU 9442/3x and PM 9445/3x - Firmware Release Notes

SWU 01.01.05		Release Date 02.04.2024
New Features	--	--
Bugfix	PROFINET	Add new stack with update for PROFINET S2 redundancy and MRP Modules will be configured if started with signal errors.
	CPU	Output values are not initialized after receiving new parameters
Known Bugs	PROFINET	Starting with signal errors will show a global error only, no signal specific information. Use webserver to get error information. If signal error is removed or module is plugged and pulled, system is OK.
Remarks		

SWU 01.01.04-0003		Release Date 15.11.2023
Bugfix	Webserver	Show correct information in tab „CPU+PM" -> „AS Protocol". ModbusRTU only
	PROFINET	Fix problem with temperature modules 9482

SWU 01.01.04-0001		Release Date 17.10.2023
New Features	CPU	Update protocol stacks 2. Ethernet port for Profibus DP and Modbus RTU MAINT LED indicates invalid protocol and servicebus address selection Support of new IS1+ Detect, V3 Supports parameter to disable "plant stop" diagnosis, (default: on) Check device name according to PROFINET / DNS rule (all protocols) Download log files as zip file
	PROFINET	HART FDI over PROFINET
	ModbusRTU	New protocol, replacement for 9440
Bugfix	CPU	9468/ and 9469/ with 8AO + 4 HV or 8 AO + 8 HV fixed PROFINET S2 redundancy Issue with PROFIBUS DP parameter written twice Configuration of SIL modules 9462 DTM configuration of 9442/32 Zone1 possible
	PM	No more BPL telegram errors
	PROFINET	MRP handling ARP and UDP bursts crashing stack UDP concatenation Diverse errors in telegram response
	Webserver	9462: add module 9469: show correct DO value
Known Bugs	CPU	Start problem could occur after factory reset was performed or with spare parts from factory. Only if new socket and new CPU on slot 1 are powered first time. Replacing single items are not affected.
		Output values are initialized after receiving a new parameter set for that module
	PROFINET	If started with signal errors, module may not receive configuration Temperature modules 9482 do not work properly
	Webserver	PM status and power consumption are sometimes not updated Incorrect information in tab „CPU+PM" -> „AS Protocol". ModbusRTU only
Remarks		Add all features and bugfixes made since 01.00.25

SWU 01.01.03		Release Date 23.05.2023
New Features	--	--
Bugfix	PM	Correct calculation of current in Zone 1 PM
Known Bugs	CPU	9468 and 9469: configuration with 8 AO + 4 / 8 HV did not work. Can be solved if configured as 8 AO/AI + HV.
		DTM configuration of 9442/32 Zone1 not possible (IS1 Wizard only)
		Start problem could occur after factory reset was performed or with spare parts from factory. Only if new socket and new CPU on slot 1 are powered first time. Replacing single items are not affected.
	PM	Small percentage of BPL telegram errors. Only with some PM, no module failures
	PROFINET	S2 redundancy not working properly

		MRP problems
Remarks	Firmware identical to version SWU 01.00.25, only PM firmware changed	

SWU 01.01.02		**Release Date** **16.05.2023**
New Features	--	--
Bugfix	PM	Update of all power module firmware versions to this version is possible
Known Bugs	CPU	Start problem could occur after factory reset was performed or with spare parts from factory. Only if new socket and new CPU on slot 1 are powered first time. Replacing single items are not affected.
		9468 and 9469: configuration with 8 AO + 4 / 8 HV did not work. Can be solved if configured as 8 AO/AI + HV.
		DTM configuration of 9442/32 Zone1 not possible (IS1 Wizard only)
	PM	Current of Zone 1 PM not correct. Maintenance LED can be switched on
Remarks	Firmware identical to version SWU 01.00.25, only PM firmware changed	

SWU 01.01.01		**Release Date** **03.05.2023**
New Features	--	--
Bugfix	PM	Change FLASH erase. PM will not switch off output during power on. use correct temperature correction in current measurement PM zone 2
Known Bugs	CPU	Start problem could occur after factory reset was performed or with spare parts from factory. Only if new socket and new CPU on slot 1 are powered first time. Replacing single items are not affected.
		9468 and 9469: configuration with 8 AO + 4 / 8 HV did not work. Can be solved if configured as 8 AO/AI + HV.
		DTM configuration of 9442/32 Zone1 not possible (IS1 Wizard only)
	PM	PM with FW < 01.00.25 cannot be updated and will switch of power. restarted using separate power supply (using SWU 99.00.00) updated to 01.00.25 prior If updated once to 01.01.01 or later, any update is possible
	PROFINET	S2 redundancy not working properly MRP problems
Remarks	Firmware identical to version SWU 01.00.25, only PM firmware changed	

SWU 01.01.00		**Release Date** **04.04.2023**
New Features	PM	Improved load balancing in redundant mode Switch output off faster if power is disconnected add support for new PM Z1 Use constant output voltage while in boot mode
Bugfix	PM	Problem with firmware update solved. Some PM got stuck in download mode and switched output off Reduce critical time for power drop
Known Bugs	CPU	Start problem could occur after factory reset was performed or with spare parts from factory. Only if new socket and new CPU on slot 1 are powered first time. Replacing single items are not affected.
		9468 and 9469: configuration with 8 AO + 4 / 8 HV did not work. Can be solved if configured as 8 AO/AI + HV.
		DTM configuration of 9442/32 Zone1 not possible (IS1 Wizard only)
	PM	PM with a FW < 01.00.25 cannot be updated and will switch of power. restarted using separate power supply (using SWU 99.00.00) updated to 01.00.25 prior Skipped temperature compensation of current measurement PM zone 2, values in webserver too high
Remarks	Firmware identical to version SWU 01.00.25, only PM firmware changed	

SWU 01.00.25			Release Date	23.11.2022
New Features	CPU	Password reset, only with socket HW Rev C or later (HEX decoder) PROFINET: Input Status of readback independent of input status		
	PM	Switch off red. PM while other PM is in update. Serial firmware download of redundant PM		
Bugfix	CPU	Improved redundancy switching Webserver Show DI instead of DO, fix text Correct display of CPU zone 1 Add gateway address to UBOOT environment		
	PM	Fixed power on problem Serial firmware download Switch off PWR OUT LED if power supply of PM is removed Correct display of zone 1 PM in webserver		
Known Bugs	CPU	Start problem could occur after factory reset was performed or with spare parts from factory. Only if new socket and new CPU on slot 1 are powered first time. Replacing single items are not affected.		
		9468 and 9469: configuration with 8 AO + 4 / 8 HV did not work. Can be solved if configured as 8 AO/AI + HV.		
Remarks				

SWU 01.00.24			Release Date	28.03.2022
New Features	CPU	HART communication over backup CPU Add support for virtual COM port Add OPC UA demo mode in standard CPU Add NTP support Add global data (field station name, location, comments….) available in both redundant CPU Add support for IOM redundancy Add PROFINET extensions Improved Web diagnostics Licenses loadable via webserver Add support for HEX decoders of socket (9496\)		
Bugfix	CPU	Extend PROFINET to 1024 Bytes Boot from sockets from factory (empty sockets)		
	PM	Improve PM redundancy		
Known Bugs	PM	Power on problem may occur		
Remarks	--			

SWU 01.00.23			Release Date	26.10.2020
New Features	--	--		
Bugfix	CPU	Optimize timeout on backplane		
Known Bugs	--	--		
Remarks	--			

SWU 01.00.22			Release Date	22.09.2020
New Features	CPU	Webserver extended history Webserver timesync with PC IS1+ Virtual Com port support		
Bugfix	PM	no maintenance alarm of red. PM, with a switched off PM		
Known Bugs	CPU	Update from SWU 01.00.21 requires a power on to show correct PM information		
Remarks	No official release			

SWU 01.00.21			Release Date	09.07.2020
New Features	CPU	PROFIBUS DP New PROFINET stack		
Bug Fixes	CPU	Webserver		
Known Bugs	--	--		
Remarks	--			

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SWU 01.00.18			Release Date	19.03.2020
New Features	CPU	PROFIBUS DP		
Bugfix	CPU	PROFIBUS DP Webserver		
Known Bugs	--	--		
Remarks	--			

SWU 01.00.17			Release Date	11.02.2020
New Features	--	--		
Bugfix	CPU	Synchronization between redundant CPU Webserver		
Known Bugs	--	--		
Remarks	--			

SWU 01.00.16			Release Date	11.09.2019
New Features	--	--		
Bugfix	CPU	Synchronization between redundant CPU		
Known Bugs	CPU	HART over PROFIBUS DP not working No slave startup on PROFIBUS DP RS485 only point to point connection		
Remarks	--			

SWU 01.00.11			Release Date	06.02.2019
New Features	CPU	All protocols implemented		
Bugfix	CPU	Synchronization between redundant CPU		
Known Bugs	CPU	No HART communication on inactive CPU No update of inactive CPU if other CPU is active RS485 only point to point connection		
Remarks	--			

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Support: support.automation@r-stahl.com
+49 7942 943-4123
r-stahl.com