

Technical Communication 05064 :

Functional firmware limitation relating modem communication with PCD1.M1x0, PCD2.M1x0 and PCD4.M170

Dear Sir/Madam,

There is a functional limitation in the current official firmware versions of the above mentioned products that appears as follows:

If the modem is configured in the hardware settings **and** the modem library is used, the modem library cannot do its job properly due to an error in the SASI OFF instruction. If only the modem configuration is done **or** if only the modem library is used without modem configuration, everything works as expected.

Affected versions:

PCD1.M1x0: 083
PCD2.M110/M120: 096
PCD2.M150: 0C4
PCD2/PCD4.M170: 017

Earlier official versions of the mentioned products are not affected.

The other CPU's not mentioned here (for instance PCS1, PCD3, PCD2.M480) are not affected.

Corrective action on our side:

We will introduce new firmware versions in production very soon, the planning is as follows:

	Week 26 (June 27 to July 1st)	Week 27 (July 4 to 8)
PCD1.M1x0	No deliveries (unless you have an open order and confirm that the limitation is not significant for your customer)	Introduction of the new version 084, first deliveries with new version, the stock of CPU's will be updated to the new version ASAP
PCD2.M1x0 PCD4.M170	Deliveries with affected versions and an additional leaflet that informs about the restriction	Introduction of the new versions (097, 0C5, 01A), the stock of CPU's will be updated to the new version ASAP

Corrective action on your side:

The modem is only used in a minority of applications, but we can never know which ones and it is always possible that a modem is retrofitted later on. As the PCD1 firmware chips are soldered now, the handling we suggest is different for PCD1 and the other systems:

General action:

- Please inform the customers that are possibly affected (deliveries from Murten in 2005) by the restriction as soon as possible (you can refer to www.sbc-support.ch/faq if you like, there will be an FAQ with this content soon, classified with the affected products)

PCD1.M1x0 with FW 083:

- Please return units you have in stock with this firmware version and the units from affected customers for credit and order new units, use the reference "Firmware update to V084" for both operations

PCD2.M110/M120/M150:

- If customers are affected by the restriction, send them firmware chips with the new version (if you are not yet equipped to burn firmware chips, this is a very good moment to start with it)
- As soon as the new firmware versions are available on the supportsite, update your stock and any deliveries you get from Murten in the near future

PCD2/PCD4.M170:

- If customers are affected by the restriction, ask them to download the .blk file from the supportsite and download it to the CPU using the online configurator
- As soon as the new firmware version is available on the supportsite, update your stock and any deliveries you get from Murten in the near future

I will let you know as soon as the mentioned firmware versions are available on the supportsite. If you have to find an **urgent workaround**, you can as well downgrade the firmware to version

PCD1.M1x0: 082 (you cannot do the downgrade yourself as the chips are soldered)
PCD2.M110/M120: 094
PCD2.M150: 0C2
PCD2/PCD4.M170: 010

We beg your pardon and thank you for your collaboration. On our side we make sure we learn our lesson well.

Best regards

Saia-Burgess Controls AG
Technical Customer Service

i.V. Jürg Hurni