9.7.1 Exchange of the Buffering Batteries

For buffering lithium batteries are used.

Lifetime of the buffer batteries (CPU not in operation, modules *without* voltage feeding):
1000 days at T_A = 25 °C,
200 days at T_A = 60 °C
It is recommended to change the buffer batteries (CPU in operation, modules *with* voltage feeding) at the latest after 6 years.

Changing of external batteries of the systems H41q/H51q:

1. Battery without soldering lug:
   CR-1/2 AA-CD, HIMA part no. 440000019.
   Remove battery cap, loose battery out of the holder and plug in new battery. Check the polarity!
2. Battery with soldering lug: CR-1/2 AA-CD, HIMA part no. 440000016
   Solder battery out of holder (first + pole then - pole). At solder in check the correct polarity and first solder the - pole then the + pole.

External batteries of the systems H41q: Backplane of the bus plate
Dependent on the battery type changing as described above.

External batteries of the systems H51q: Power supply monitoring module F 7131
The module can be pulled out in the energized state. Then change the battery as described above. Check the polarity!

Central modules: F 8650E / F 8650X, F 8651E / F 8651X, F 8652E / F 8652X, F 8653E / F 8653X
Battery: CR 2477N, HIMA part no. 44 0000018
It is recommended to change the buffer battery (CPU in operation, modules *with* voltage feeding) at the latest after 6 years, or with display BATI within three months.



For battery change the central module has to be pulled out of the subrack!

Further informations you will find in chapter “How to Insert and to Remove Modules“. For single channel systems this results of course in a shutdown of the plant, in redundant systems the system reaction depends on the configuration.

Coprocessor module F 8621A
This module may be installed as an option within the central rack of the H41q/H51q system family. At H41q system the coprocessor module is buffered via the batteries on the backplane, at H51q system this is done by batteries on the F 7131 power supply monitoring module. A coprocessor module is needed to hold the master program for controlling the communication between PES systems (slaves).