7.4 Update from F 865. to F 865.X

When F 865. central modules are updated to F 865.X, also the fan conception must be modified:

Former fan concept:
Z 6012: one integrated fan with fan run monitoring and fuse monitoring

New fan concept:
Z 6018: fan run monitoring for 4 fans and fuse monitoring
K 9212: fan unit (4 fan units for H41, 3 fan units for H51).

See also data sheets of the assembly kits.

7.5 Replacement of F 865.A by F 865.X

F 865.A central modules can be replaced by F 865.X modules after changing to the new fan concept and using the unaltered user program, but with the new operating system (BS41q/51q V7.0-8).

7.6 Use of Coprocessor and Communication Modules

System H41q
To the right of each central module one coprocessor module (F 8621A) or one communication module (Ethernet: F 8627/F 8627X, Profibus-DP: F 8628/F 8628X) can be installed. If they are operated in redundant mode, the same type has to be used.

System H51q
To the right of each central module up to three coprocessor modules or up to five communication modules can be installed additionally.

Restrictions
Coprocessor modules:
Max. 3 for each central module, only the slots reserved for the coprocessor modules can be used (slots 10, 11, 12 or 17, 18, 19).

Ethernet or Profibus-DP communication modules:
Max. 5 for each central module, each of the five slots right of the central modules can be used (slots 10, 11, 12, 13, 14 or 17, 18, 19, 20, 21). The different types can be mixed.

If they are operated in redundant mode, the redundant coprocessor or communication modules must be installed in the according slots.

Note In this state the system is set up for testing if individual lines or a group of lines are insulated against earth, but not if two lines are insulated against each other. Otherwise there is a risk of damage.
The guideline for test voltages and insulating resistance is IEC/EN 61131-2 or DIN VDE 0160/EN 50178.

9.5 Switching on Power Supply

The input/output modules and their appertaining cable connectors are fixed with screws. The 24 VDC operation voltage has to be checked for correct polarity, level and ripple before it is connected.
In case of reverse polarity a fuse protects the I/O module of damages.

9.6 Functional Testing

9.6.1 Preparing Functional Testing

For functional testing check the equipment of the control cabinet completely with help of the label and/or documentation printout "I/O subrack". All free connectors of the input/output modules have to be connected to the allocated input/output racks, and the voltage connections of the cable connectors to the allocated voltage distributors. All control elements (control devices) must be released by the factory management or be driven without auxiliary power.

9.6.2 Testing in the Central Devices

The essential tests in the central devices of the H41q/H51q system are:

Central modules	switch positions for bus station no. and transfer rate, version of the operation system via display
Coprocessor module F 8621A	operating system EPROM switch positions for RS 485 interface
Communication modules	switch positions for different operating modes for modules F8627/F8627X and F8628/F8628X, see corresponding data sheet
I/O bus connection	refer to the data sheet of the appertaining assembly kit

We recommend marking all required switch positions etc. in copies of the data sheets of the respective control cabinet and keeping the copies in the pocket of the cabinet door. Should modules have to be exchanged, the necessary information will thus be immediately available.