Brief Instruction System Modifications and Extensions

miniControl plus

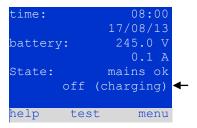
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1 Modifications or extensions of your miniControl *plus* system

Shut down the system prior to all modifications and extensions. Afterwards it has to be made ready for operation again. The necessary steps are shown below.

2 Shutting down the system

- Switch the system to charging mode (operation mode switch (16) to position "0")
 Note: Check that the LC-display (15) shows "charging mode".
- 2. Disconnect the system from mains (mains switch (9) to position "0")
- 3. Remove battery fuses F2/F3/F4 (11)
- 4. Remove mains fuse F1 (11)
- 5. De-energise the system and protect it against unintentional restart



Status "charging mode" (arrow)

8 Modifications/extensions/maintenance

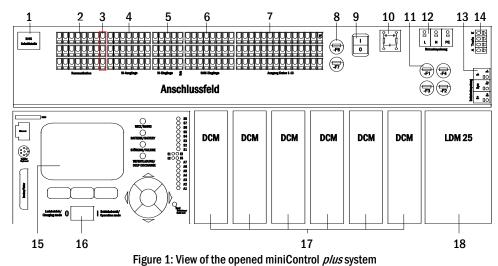
You can now start working on the de-energised system and e.g. connect the BUS-line of a remote control unit (MCT-12 or MCT-12S) to the terminals of the RS485-interface (for exact pin assignment see connection diagram).

4 Restart the system

- 1. Remove restart protection and energise the system
- 2. Insert battery fuses F2/F3/F4 (11)
- 3. Insert mains fuses F1 (11)
- 4. Connect the system to mains (mains switch (9) to position "1")

The system starts booting. This process can take several minutes. **Caution:** Do not shut down the system during the booting process!

5. Switch the system to "ready to operate" (operation mode switch (16) to position "1")



- 1 ethernet interface
- 2 communication
- 3 quiescent current loop
- 4 IOM-outputs
- 5 IOM-inputs
- 6 SAM-inputs
- 7 electric circuits
- 8 fuses auxiliary circuit
- 9 mains switch
- 10 mains filter
- 11 fuses mains/battery supply
- 12 mains supply
- 13 battery connection
- 14 connection toroidal transformer
- 15 LC-display
- 16 operation mode switch
- 17 direct current modules (DCM)
- 18 charger module (LDM)