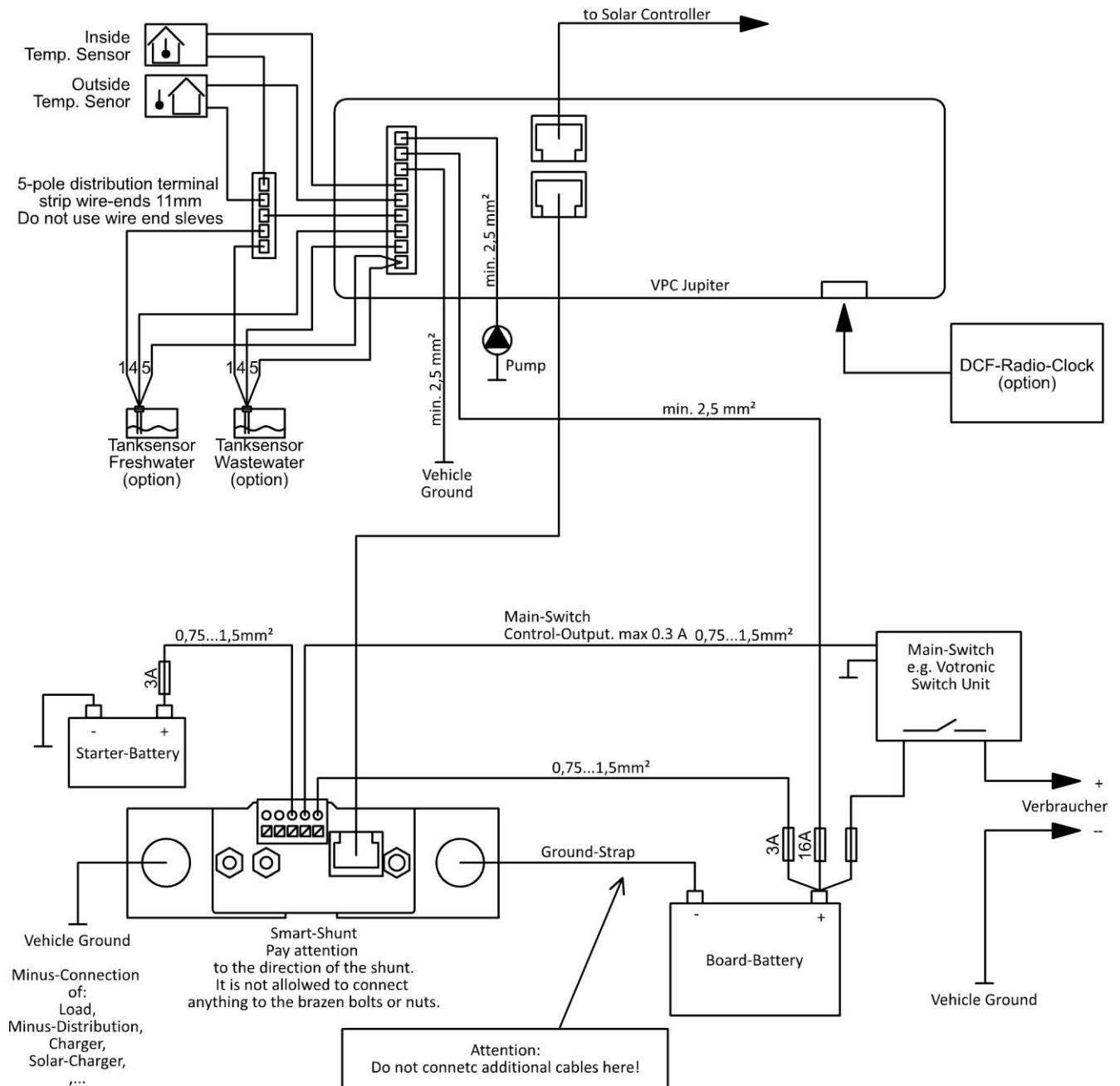


## Installation and Connection:



All terminals are designed in such a way, that end-type terminals are not required. The 9-pole terminal at the display panel is a plug-in terminal, which can be removed for installation. The cable cross-sections can be drawn from the plan. Since fuses serve as cable protection, they must be positioned as close as possible to the battery.

### Smart Shunt

The smart shunt measures the battery voltage and the current for determination of the residual capacity (level) of the battery. Furthermore, it can measure the voltage of the starter battery, and it is equipped with a terminal for control of a main switching relay, such as the Votronic Switch Unit 40.

Any battery current should flow over the smart shunt. Therefore, it is to be installed directly near the battery (batteries). Correct calculation of the actual battery capacity is only possible, if all currents are detected correctly by the smart shunt.

Ground straps at the connecting screws M8 of the smart shunt are to be screwed in such a way, that one connection is connected to the negative pole of the battery and the other one with the car body. The connections at the negative pole of the battery and at the body / ground should not be mixed up (see connection plan). Otherwise, a charge is measured as discharge and vice-versa.

Never connect anything to the brass screws of the electronic system of the smart shunt.



The connections at the smart shunt should always be tightened firmly to avoid any transition resistance. Permanent high load might result in heating of the smart shunt.