

Figure 1: Solar water heating system components

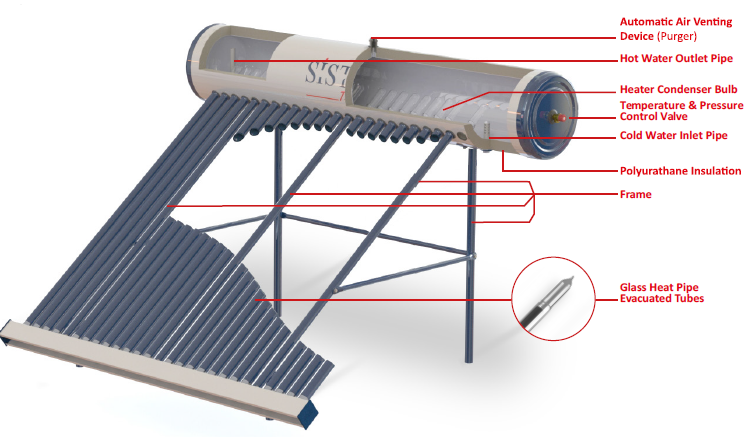
 Figure 2: a SisTEM Tabular solar water heater[8]



Figure 3: Glass heat pipe evacuated tube



Figure 4: ELBI storage tank



Figure 5: Resol DeltaSol C4 Regulator components

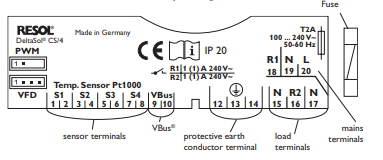
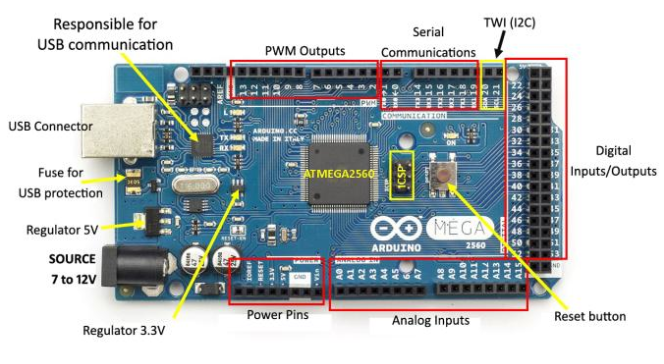


Figure 6: Resol DeltaSol CS/4 regulator connection board



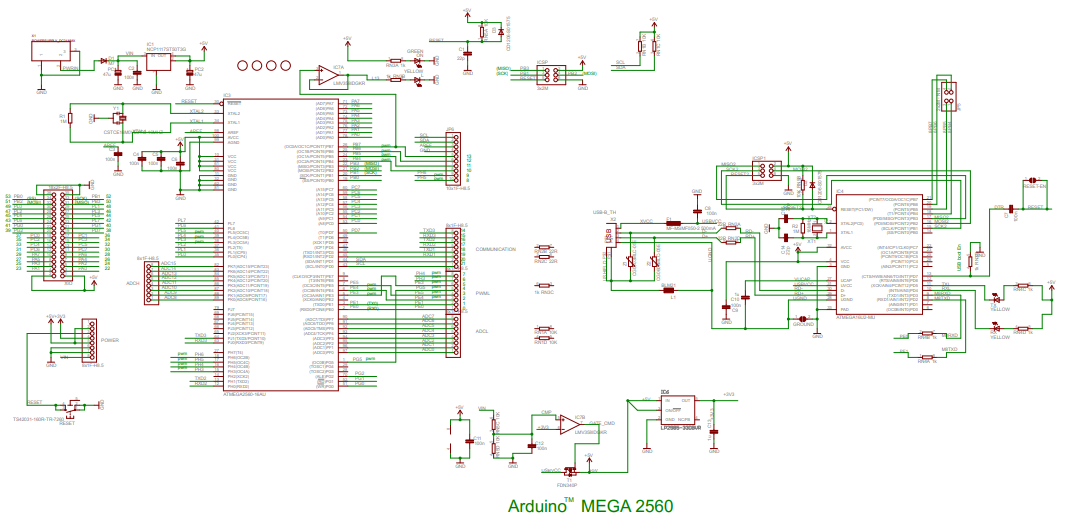


Figure 7: Arduino Mega board (a) and circuit (b) specifications

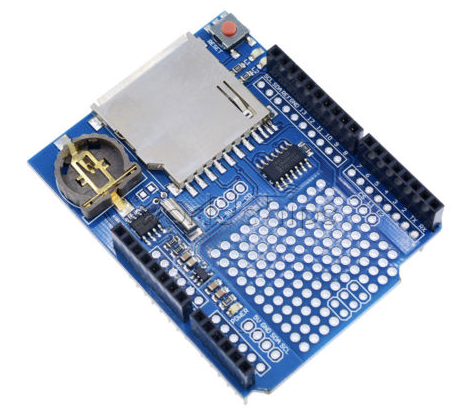


Figure 8: V.1 data logging shield for Arduino

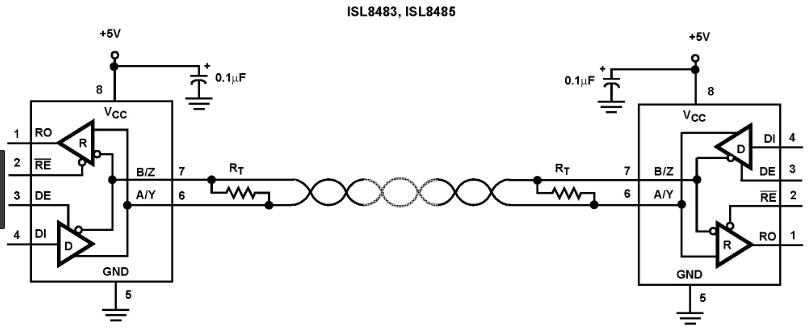


Figure 9: RS485 communication protocol interface for data transmission and reception

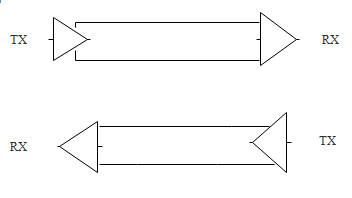
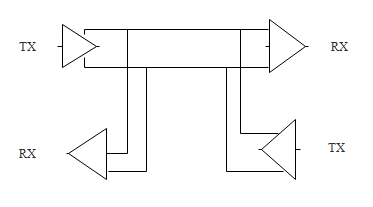


Figure 10: RS485 (a) and RS422A (b) communication principal

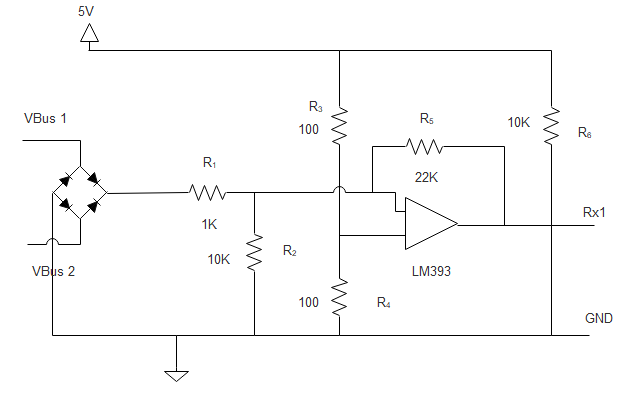


Figure 11: VBus to UART adaptation circuit

