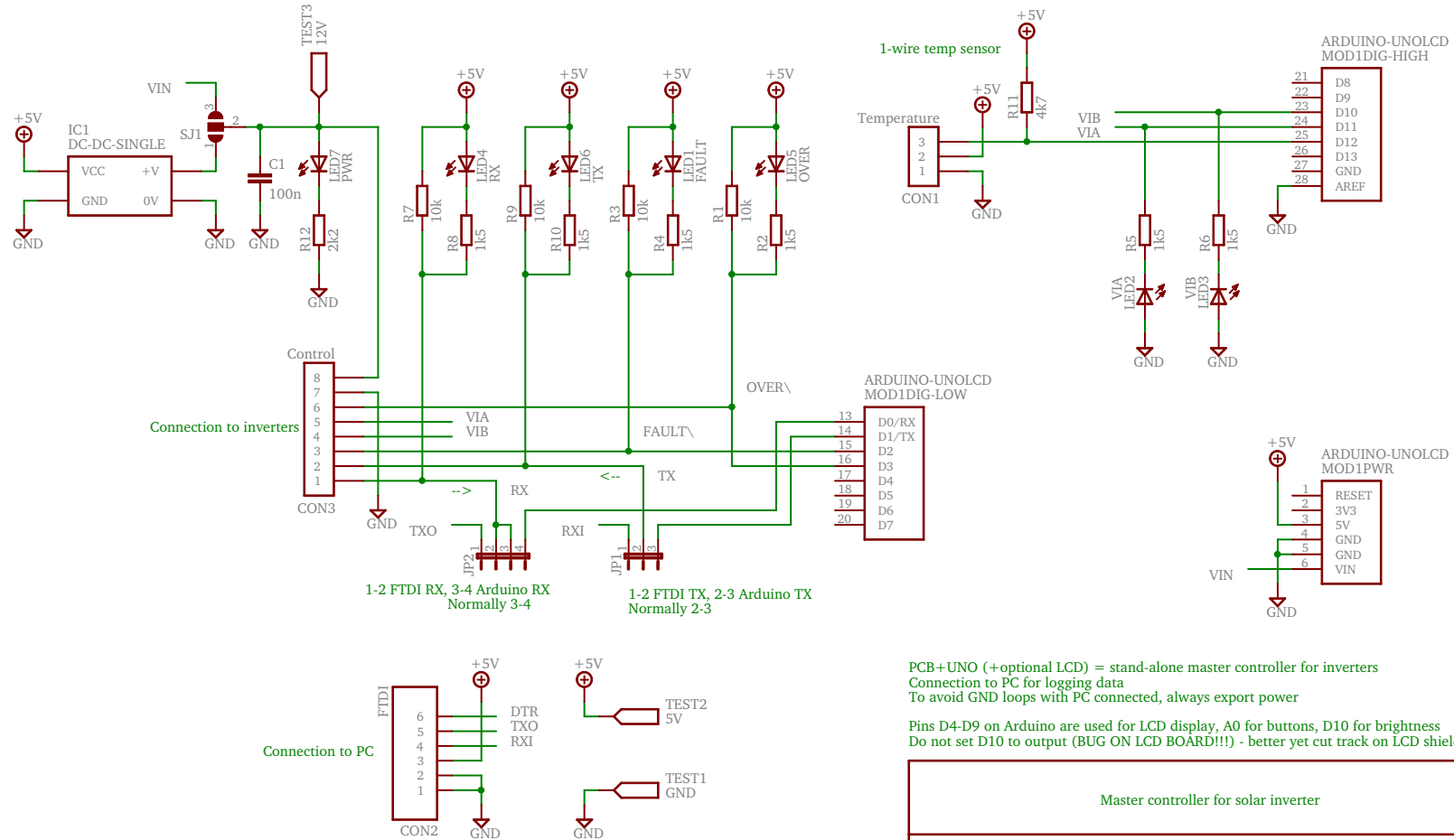


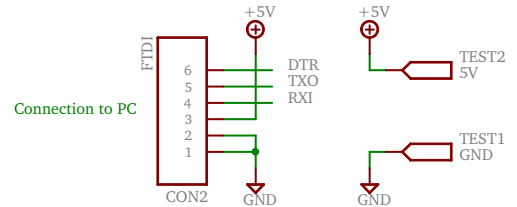
Remove 4k7 pullup if using analogue sensor  
 Remove temperature connection from D12 and connect to A1 possibly via SJ  
 AREF should not be connected to GND! Should be N/C  
 PCB doesn't have markings for SJ1 positions!  
 VIB and VIA LEDs polarity wrong!

Power dissipation little too high for 78L05 to use a full size 7805?  
 Add 10k/5k6 divider on 12V input output to A2. Measure on Arduino to detect under/over voltage!  
 Add under voltage lockout and 12->5V PSU  
 Add RF transmitter on D13  
 Possibly use LM35 (or LM135 LM235 LM335 but not as suitable) for temperature measurement in noisy environment?  
 Add a reference voltage for precision measurement? No because keypad shield uses A0!

Export pwr to inverters. 1-2 step up Arduino 5V to 12V. 2-3 use Arduino Vin. N/C do not export power.



1-2 FTDI RX, 3-4 Arduino RX Normally 3-4  
 1-2 FTDI TX, 2-3 Arduino TX Normally 2-3



PCB+UNO (+optional LCD) = stand-alone master controller for inverters  
 Connection to PC for logging data  
 To avoid GND loops with PC connected, always export power  
 Pins D4-D9 on Arduino are used for LCD display, A0 for buttons, D10 for brightness  
 Do not set D10 to output (BUG ON LCD BOARD!!!) - better yet cut track on LCD shield!

8P8C connector, Assmann A-2004-2-4-LP-N-R connector mod jack R/A, Digikey #AE10384-ND  
 DC/DC power supply 5V->12V, muRata CME0512S3C, Digikey #811-2892-5-ND

Master controller for solar inverter	
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