MCU pin	name	func	used	2nd func	LCD pin
1	pb0		1-wire port 0		
2	pb1		1-wire port 1		
3	pb2		1-wire port 2		
4	pb3		1-wire port 3		
5	pb4		1-wire port 4		
6	pb5	mosi	1-wire port 5	prog	
7	pb6	miso	1-wire port 6	prog	
8	pb7	sck	1-wire port 7	prog	
9	reset			prog	
10	Vcc				
11	GND				
12	Xtal1				
13	Xtal2				
14	pd0	RXD	RS485		
15	pd1	TXD	RS485		
16	pd2		counter in 1	debug LED 0	
17	pd3		counter in 2	debug LED 1	
18	pd4		RS485 send	send LED	
19	pd5		lcd /WR		5
20	pd6		lcd rs		4
21	pd7		lcd en		6
22	pc0		lcd d0		7
23	pc1		lcd d1		8
24	pc2		lcd d2		9
25	pc3		lcd d3		10
26	pc4		lcd d4		11
27	pc5		lcd d5		12
28	pc6		lcd d6		13
29	pc7		lcd d7		14
30	avcc				

31	gnd				
32	aref				
33	pa7		vr 1 (gnd to vref)		
34	pa6		vr 2 (gnd to vref)		
35	pa5		key 1 (to gnd)		
36	pa4		key 2 (to gnd)		
37	pa3		AIN 3		
38	pa2		AIN 2		
39	pa1		AIN 1		
40	pa0		AIN 0		