

ATtiny2313 – Based Thermostat

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Developer Notes

Main board <-> Display board connectors pinout.

Display board side:

DISP 11(A)	1	2	DISP C1
DISP 10(F)	3	4	DISP C2
DISP 7(B)	5	6	DISP C3
DISP 4(C)	7	8	DISP 5(G)
DISP 2(D)	9	10	DISP 3(DP)
IND LED +	11	12	DISP 1(E)
BTN3	13	14	NC
BTN1	15	16	NC
BTN2	17	18	PWR LED +
GND	19	20	GND

Main board side:

DISP 11(A)	1	2	DISP C1
DISP 10(F)	3	4	DISP C2
DISP 7(B)	5	6	DISP C3
DISP 4(C)	7	8	DISP 5(G)
DISP 2(D)	9	10	DISP 3(DP)
IND LED +	11	12	DISP 1(E)
BTN3	13	14	+5V
BTN1	15	16	+5V
BTN2	17	18	PWR LED +
GND	19	20	GND

Note that display and main board requires inverted cable (one connector facing up, the other one facing down).

MCU Pin Functions:

MCU Port & Pin	MCU Pin #	Direction	Function
PB5	17	O	Display Collector #1
PB6	18	O	Display Collector #2
PB7	19	O	Display Collector #3
PB4	16	O	Display A
PA1	4	O	Display B
PB0	12	O	Display C
PB1	13	O	Display D
PA0	5	O	Display E
PB3	15	O	Display F
PD3	7	O	Display G
PD2	6	O	Display DP
PB2	14	O	Indicator LED
PD4	8	I	Button 1
PD5	9	I	Button 2
PD6	11	I	Button 3
PD0	2	O	Relay
PD1	3	I/O	Sensor