

Bill Of Materials for Thermost sch

11 Capacitors

<u>Quantity</u>	<u>References</u>	<u>Value</u>	<u>Description</u>
4	C1,C3,C5,C7	47u	47u 25V 70mA Miniture Electrolytic Capacitor
7	C2,C4,C6,C8-C11	1u	CAP CERM 4.7uF 10% 10V X5R 1206

Sub-totals:

43 Resistors

<u>Quantity</u>	<u>References</u>	<u>Value</u>	<u>Description</u>
16	R1-R16	47	Through Hole Resistor 0.25W, 1% 47 Ohm
10	R17,R19,R22,R24,R27, R29,R31,R33,R35,R39	10K	Through Hole Resistor 0.25W, 1% 10K
9	R18,R21,R23,R25,R30, R32,R34,R36,R40	47K	Through Hole Resistor 0.25W, 1% 47K
2	R20,R26	120R	Through Hole 0.25W, 1%, 120 Ohm
1	R28	4K7	Through Hole Resistor 0.25W, 1% 4k7
4	R37-R38,R41-R42	470	Through Hole Resistor 0.25W, 1% 47 Ohm
1	R54	4k7	Through Hole Resistor 0.25W, 1% 4k7

Sub-totals:

8 Integrated Circuits

<u>Quantity</u>	<u>References</u>	<u>Value</u>	<u>Description</u>
2	U1,U4	SN75179	Differential Driver & Receiver Pair , TIA/EIA-422-B, TIA/EIA-485-A
2	U2-U3	ATMEGA8	8 KBytes Flash, 1088 Bytes SRAM, 512 Bytes EEPROM, ADC, Analog Comparator, TWI, SPI, 3 Ports, 3 Timers, 1 USART
2	U5-U6	7805	5V Fixed 1A Positive Power Supply Regulator.
1	U7	DS18B20	Programmable Resolution 1-Wire Digital Thermometer
1	U8	IRM 10-12	AC/DC PCB Mount Power Supply , 1 Output, 10 W, 12 V, 850mA

Sub-totals:

10 Transistors

<u>Quantity</u>	<u>References</u>	<u>Value</u>	<u>Description</u>
10	Q1-Q10	BC337	Silicon NPN Low Power High Frequency Bipolar Transistor (625mW, 150eC)

Sub-totals:

6 Diodes

<u>Quantity</u>	<u>References</u>	<u>Value</u>	<u>Description</u>
1	D1	1N4003	Si; 200.0V 1.00A 3.00us
2	D2,D4	LED-RED	LED 5mm (Red) 2mA
2	D3,D5	LED-GREEN	LED 5mm (Green) 2mA
1	D6	LED-YELLOW	LED 5mm (Yellow) 2mA

Sub-totals:

22 Miscellaneous

<u>Quantity</u>	<u>References</u>	<u>Value</u>	<u>Description</u>
1	BUZ1	AI-4228-TWT-R	12V DC Operated Buzzer
8	DIS1-DIS8	HDSP-C1E1	Common Anode 7 Segment LED Display, Red, 20 mA, 4 V, 12 mcd, 1, 25.4 mm
1	FU1	10A	Fuse 5x20mm
1	FU2	1A	Fuse 5x20mm
2	J1-J2	TBLOCK-I4	Imperial pitch terminal block
4	J3-J6	TBLOCK-M2	Metric pitch terminal block
1	RL2	4V	Finder 44 Series DPDT Non-Latching Relay PCB Mount, 12V dc 55mA Coil, 10A
4	SW1-SW4		SPST Push Button

Sub-totals: