

MK14 BOM

RefDes	Value	Description	Notes	Supplier Part No.	Quantity
C1	27pF	Ceramic capacitor			1
C2	1000uF/40V	Electrolytic capacitor			1
C3,4	10nF	Ceramic capacitor			2
C6	22uF/16V	Electrolytic capacitor			1
IC1	INS8060	SC/MP microprocessor			1
IC2,3	74S571	512x4-bit PROM	programmed with SCIOS		2
IC4,5,6,7	MM2111	256x4-bit RAM	alternative AM9111		4
IC8	INS8154	128 x 8-bit RAM & input/output			1
IC9,10	74LS157	Quad 2 to 1-line selector			2
IC11	DM80L95	Hex tri-state buffer			1
IC12	74LS173	Quad tri-state latch			1
IC13	7445	BCD to decimal decoder/driver			1
IC14,15	7408	Quad 2-input AND			2
IC16	74LS08	Quad 2-input AND			1
IC17	74LS00	Quad 2-input NAND			1
IC18	74LS04	Hex inverter			1
IC19	LM340T-5.0	5V regulator			1
IC20	NSA1198/88	LED display			1
J3	2-pin 0.1"	Terminal block	mounting holes drilled out 1.3mm*	e.g. Phoenix 1725656 (RS 220-4260)	1
LK1	link 0.1"	made link	cut for VDU		1
R1,11,16	4K7	250mW resistor	R16 only required for VDU		3
R2,5	2K4	250mW resistor			2
R3	100K	250mW resistor			1
R4,6,7,8,9,10,12,13,14,15	1K2	250mW resistor			10
R17	1K0	250mW resistor	R17 fitted when later version SCIOS fitted		1
S1	D6	Tactile switch	Reset switch		1
S2-21	Footprint: 5x5mm or 7.62x10.16mm or 5x12.5mm	Tactile switch		e.g. D6 e.g. Multimec RA3FTLx e.g. Omron B3F-5050 + B32-1360	20
X1	4.433619MHz	Crystal HC49u			1
IC14,15,16,17,18	14-pin	DIL socket			5
IC2,3,9,10,11,12,13	16-pin	DIL socket			7
IC4,5,6,7	18-pin	DIL socket			4
IC1,8	40-pin	DIL socket			2
IC20	18-way x 0.1"	Connector strip		e.g. TE Connectivity FSN-21A-20	1
IC19		Heatsink	requires M2.5 nut and bolt	e.g. RS 402-951	1
		stick on feet			4

* for some reason DIPTRACE plates these two holes